







# WELCOME TO NEXTECH NAVIGATE

The 4th annual Indiana computer science conference designed specifically for Indiana high school students.

We are so pumped to have you here with us this year. It's the fourth year of Navigate, and we are ready to make this the best one yet. Navigate was built exclusively for you! You will be attending along with high school students from all across Indiana. Everyone is welcome - whether computer science is on your class schedule or not.

So what's going to happen during Nextech Navigate? You will have amazing chances to learn about the opportunities you have in computer science and technology throughout the day. You'll be able to explore new tech apps and get an introduction to Indiana's rapidly growing high-tech sector - from Fortune 500 companies to start-ups. Check out all of the breakout sessions and choose your own adventure. There are multiple breakout sessions to choose from, and you get to pick the five that interest you the most. The sessions are laid out across three different categories. You can choose from each category to make your own path. These are:



#### Jobs in Tech

Check out various careers in technology, learn about what a typical day is like and what roles may interest you.



#### Boost your Skills

Level up your skills by exploring CS and tech tools with master users.



#### **Build your Brand**

Dive into your skills and learn how to shape your brand.

We're proud to have you with us for this amazing event. And you may be legit wondering who the heck are we. We're Nextech, an Indiana-based educational nonprofit that works to create fair, open, and equal access to computer science curriculum and experiences for all K-12 graders statewide, regardless of family income or social background.



# AGENDA

8:55:00 AM ET	Doors Open		
9:00 AM ET	Welcome and Introduction		
9:10 - 9:45 AM ET	Jobs In Tech	Boost Your Skills	Build Your Brand
Breakout Session #1 35 Minutes	Beauty is in the Eye of the AI (and the Algorithm)	Cybersecurity through Programming & Python, Part 1	Get Career Ready Now!
	10 Minute Break		
9:55 - 10:30 AM ET	Jobs In Tech	Boost Your Skills	Build Your Brand
Breakout Session #2 35 Minutes	Journeys to Success: A Panel of Diverse Tech Careers	Cybersecurity through Programming & Python, Part 2	How to Work in Tech When You Don't Think You are Technical
		l Built a Brand While In College, You Can Too!	
	10 Minute Break		
10:40 - 11:15 AM ET	Jobs In Tech	Boost Your Skills	Build Your Brand
Breakout Session #3 35 Minutes	Technical (& Not So Technical) Aspects of a Career at AWS	web3, Data, and Blockchain, oh my!	How to Set Up Your Future Success While in High School
	10 Minute Break		
11:25 AM - 12:00 PM ET	Jobs In Tech	Boost Your Skills	Build Your Brand
Breakout Session #4 35 Minutes	Careers in Tech 101	Taking Your Game to the Next Level	– Women in Data Science
		"Bits" of CS History from Ancient Egypt to Today	
	10 Minute Break		
12:10 PM - 12:45 PM ET	Jobs In Tech	Boost Your Skills	Build Your Brand
Breakout Session #5 35 Minutes	From Receptionist to Sales Exec: Working My Way to the Top	Don't Click That Link!	Empower the Future with a Reskilling Mindset
	MarTech: The Tech Behind Social Media		
12:50 PM - 1:00 PM ET	Conclusion and Dismissal		

# Thinking about a career in Computer Science?





Indiana currently has 5,900+ open computing jobs and only 2,700+ people graduated with bachelor's degrees in Computer Science in 2020.

That means there is major gap to fill, which will only grow as computing jobs are the #1 source of new wages in the U.S.

The average salary for a computing occupation is

in Indiana, which is \$37K+ higher than the average salary in the state (\$48,602).



Open computing jobs represent \$317M in salaries, and a computer science major can earn 40% more than other college majors.

of all new jobs in STEM have direct ties to computer science.









rank computer science as one of the two most im-

**50% of Americans** 

portant subjects of study after reading and writing.

On average, demand for computing jobs in Indiana is 2.2x higher than other industries on average.



Sources: https://code.org/advocacy/state-facts/IN.pdf | https://code.org/promote

Now, you may be wondering about what types of jobs (and salaries) are available that focus on computer science.



The options below are just a small sample of what you could do!

Bachelor's Degree				
Computer Science User Support Specialist	\$35,139 - \$56,702			
Web Developer and Interface Designer	\$39,307 - \$73,630			
Graphic Designer	\$41,808 - \$55,599			
Information Security Analyst	\$46,404 - \$98,930			
Project Management Specialist	\$45,950 - \$85,240			
Database Administrator	\$53,834 - \$107,070			
Sales Representative, Wholesale and Manufacturing, Technical and Scientific Products	\$60,059 - \$127,425			
Network and Computer Systems Administrator	\$66,440 - \$124,155			
Computer Network Architect	\$68,950 - \$115,236			
Software Developer and Software Quality Assurance Analyst	\$71,783 - \$111,475			
Computer and Information Systems Manager	\$107,438 - \$162,549			
Associate's Degree				
Computer, Automated Teller and Office Machine Repairer	\$21,277 - \$40,866			
Electrical and Electronics Engineering Technician	\$41,239 - \$62,030			
Computer System Analyst	\$61,081 - \$103,317			
High School Diploma				
Medical Equipment Repairer	\$42,371 - \$60,244			
	,			

Representation of jobs in Marion county; Salaries are in the 25th - 75th percentiles.



# BREAKOUT SESSIONS

Things to know as you create your very own Nextech Navigate agenda:



After the opening on the Main Stage, breakouts will begin. Each breakout session is 35 minutes long and will end with a short O&A.



There are five different time slots throughout the day; you will pick one breakout session per time slot.



All breakout sessions will be recorded and shared after the event.



When breakout sessions are ready, you will see red "LIVE" or "NOW" tags on the side panel in Hopin.

9:10 AM - 9:45 AM ET

PICK ONE FROM THE OPTIONS BELOW



**Jobs in Tech** 

#### **BEAUTY IS IN THE EYE OF THE AI** (AND THE ALGORITHM)

How does the future of marketing, selling and business look with the emergence of generative AI, personalized marketing, and other new capabilities? We'll take a deeper look at how Al algorithms shape your experience with brands, ads, and how you experience the world around you.



R. J. Talyor Operating Partner High Alpha



**Boost Your Skills** 

#### **CYBERSECURITY THROUGH** PROGRAMMING AND PYTHON. PART 1

This is a two-part session. Learn from two cyberesecurity experts. In this session, we will discuss how hackers and criminals take over computers and networks, how companies fight back, and how to apply your Python skills to cybersecurity.



Michael Pettet Offensive Security Consultant Echelon Risk + Cyber



Evan Hosinski Senior Offensive Security Consultant Echelon Risk + Cyber



**Build Your Brand** 

#### **GET CAREER READY NOW!**

Learn how to develop, track and market. It's never to early to prepare for your future. In this session, we will explore how to build your resume, craft a network, and how to look for opportunities to grow as you prepare for your career. Navigating the transition to the workplace can be daunting, but a little preparation goes a long way.



Julia Sponseller EVP, People & Culture Trinitas Ventures

9:55 AM - 10:30 AM ET

PICK ONE FROM THE OPTIONS BELOW



**Jobs in Tech** 

#### **JOURNEYS TO SUCCESS: A PANEL OF DIVERSE TECH CAREERS**

No two paths to success are the same! Join this panel as they share how their diverse experiences shaped their perspectives, honed their skills, and propelled their future towards fulfilling careers in technology.



**Lucas Matte** Senior Engineer Hashicorp



Julie Mitchell Engineering Manager InGen



Sam Stevens Engineering Manager UserTesting



**Boost Your Skills** 

#### CYBERSECURITY THROUGH PROGRAMMING AND PYTHON. PART 2

This is a two-part session. Learn from two cyberesecurity experts. In this session, we will discuss how hackers and criminals take over computers and networks, how companies fight back, and how to apply your Python skills to cybersecurity.



Michael Pettet Offensive Security Consultant Echelon Risk + Cyber



Evan Hosinski Senior Offensive Security Consultant Echelon Risk + Cyber

#### I BUILT A BRAND WHILE IN **COLLEGE, YOU CAN TOO!**

Learn how high school experiences can shape a future career. In this session, you will explore how to leverage your design skills to create and develop a range of products and experiences from a UI/UX designer and personal brand creator, who is doing it while still in college.



Jeff Priso UX/UI Design Purdue University -Undergraduate



**Build Your Brand** 

#### **HOW TO WORK IN TECH WHEN** YOU DON'T THINK YOU ARE **TECHNICAL**

ou can do more than you think! Don't limit yourself with your perceived limitations. Even if you don't think you are technical, there is a job for you in technology and software. Learn how to use the skills that you already have (just google it!) to find success in high-paying, high-demand jobs



Sarah Harnish Implementation Specialist Ren

10:40 AM - 11:15 AM ET

PICK ONE FROM THE OPTIONS BELOW



**Jobs in Tech** 

#### **TECHNICAL (& NOT SO TECHNICAL) ASPECTS OF A CAREER AT AWS**

Meet a Product Manager at Amazon Web Services (AWS) to learn how they troubleshoot customer needs to migrate their applications into the cloud. In this session you'll dive into what it means to be a product manager at AWS and why a foundation in Computer Science is essential to successs.



Adam Spicer Principal Product Manager, Technical AWS



**Boost Your Skills** 

#### **WEB3, DATA, AND BLOCKCHAIN, OH MY!**

Data is all around you, but what does it look like in the real world? Join the team from Holder for a hands-on demonstration of web3, crypto, and blockchain exploring how data about you is used and what you can own and control.



**Keith Hedges** Software Engineer Holder



Casey Mockbee Software Engineer Holder



**Build Your Brand** 

#### **HOW TO SET UP YOUR FUTURE SUCCESS WHILE** IN HIGH SCHOOL

Learn how a college freshman at Purdue took the opportunities given to him in high school to jump start his future in college and the workforce. You'll hear how to leverage your high school experience to prepare for college success.



Keenan Koehler Undergraduate Student Purdue University

# 11:25 AM - 12:00 PM ET

PICK ONE FROM THE OPTIONS BELOW



#### **Jobs in Tech**

#### **CAREERS IN TECH 101**

Dive into Indiana's most sought after roles in the digital innovation economy. Learn about the work you would be doing and salary, required skills and competencies, and growth opportuities. Start charting your individual journey to find your place in Indiana's tech workforce.



**Emily Kitterman** Senior Manager of Careers in Tech TechPoint



#### **Boost Your Skills**

#### **TAKING YOUR GAME** TO THE NEXT LEVEL

In this session, you will hear from the Butler Esports Department as they discuss exploring modern challenges and opportunities in the ever-evolving Esports ecosystem.



**Nathan Duke** Manager of eSports Programs & Facility Operations Bulter University eSports

#### "BITS" OF CS HISTORY FROM **ANCIENT EGYPT TO TODAY**

•••••

CS History in 30 minutes! We will explore the breadth and depth of the field of computer science through a historical lens, from algorithms to ancient Egypt's arithmetic to today's explosion of machine learning, smartphones and quantum computers.



Jon Sorenson Professor of Computer Science and Software Engineering Butler University



#### **Build Your Brand**

#### **WOMEN IN DATA SCIENCE**

Join us for an session where successful women in data science will share their stories and insights. Learn about cool projects, ask questions, and find out how you can be part of the data-driven future, no matter where your high school journey takes you!



Sara Hunter Education Practice Lead Resultant



**DeVonia Monroe** Junior Data Scientist Resultant



LE Lee Data Data Science Manager Resultant



Alexa Avery Data Scientist Resultant

# 12:10 PM - 12:45 PM ET

PICK ONE FROM THE OPTIONS BELOW



**Jobs in Tech** 

#### FROM RECEPTIONIST TO **SALES EXEC: WORKING** MY WAY TO THE TOP

Explore how a software executive got their foot in the door by the taking the receptionist job and then took that opportunity to catapult their future success. Join this session to learn about one person's journey from knowing nothing about software to knowing a lot... and how she did it.



Melissa Gindling VP, Account Management 120Water

#### **MARTECH: THE TECH BEHIND SOCIAL MEDIA**

Discover the technology leaders behind the digital realm of social media. In this session, you will learn all about the field of Marketing Technology (MarTech) and all of the jobs that exist within the field. Use those Instagram and TikTok skills to build your future career!



**Race Bates** Associate Director - IDS Global Digital Engagement - Strategy and Operations Eli Lilly and Company



**Boost Your Skills** 

#### **DON'T CLICK THAT LINK!**

Discover the actual dangers of clicking malicious links and/or downloading files from untrusted sources. You will see how easy it can be for a malicious actor/hacker to gain control of your entire system including your webcam, microphone and all your files.



Joseph MacAdam Director of Cybersecurity Content Cyber.org



**Brandon Salley** Cybersecurity Curriculum Specialist Cyber.org



**Build Your Brand** 

#### **EMPOWER THE FUTURE WITH** A RESKILLING MINDSET

Empower your future! You know that high school and even college will happen TO you, but your future will happen BECAUSE of you. Learn how to flex your superpower of lifelong learning and reskilling in order to achieve maximum success!



Anna Stumpf Growth Coach and Consultant & Company Collective Energy





# THANK YOU ATTENDING







