## **Taylor Cox**

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## **EDUCATION**

EDUCATION	
Worcester Polytechnic Institute (WPI), Worcester, MA	Dec. 2022
Bachelor of Science, Computer Science, GPA 3.5 / 4.0	
<u>Dean's List</u>	Semester 1 2018, 2019
Bachelor's Degree with Distinction	Dec. 2022
Relevant Courses:	
5000-level: Computer Networks, Database Systems I & II, Webware – Web Applications	
4000-level: Human-Computer Interaction, Software Engineering, Student Research	
SKILLS	
Programming Languages/Databases: Python, HTML/CSS/JavaScript, React.js, jQuery, Java, C	C, PostgreSQL, MongoDB
Operating Systems: Debian / Ubuntu Linux, Windows 7/10/11, Docker	
Software: VSCode, Figma, LucidChart, Postman, pgAdmin, Microsoft Office, Google Work	space, Todoist
EXPERIENCE	
IT Technician / Software Developer (Part-Time), Aquatecture, Point Pleasant Beach, NJ	August 2023 - Present
- Implementing systems for backup, file sharing, and software tools for project	
creation and overhead calculations for family business.	
- Managing pfSense firewall for geo-IP blocking and blocking malicious websites.	
<u>Student Research Assistant – Thesis Work</u> , ASSISTments, Worcester, Massachusetts	May '21 - Aug. '21
<ul> <li>Managed teams with 3 members on Affect and BKT services.</li> </ul>	May '22 – Aug. '22
<ul> <li>Designed scalable and robust software for production.</li> </ul>	
<ul> <li>Developed software in line with existing ASSISTments programming practices.</li> </ul>	
IT Technician (Freelance), eSki, Worcester, Massachusetts	Jan. 2022 - Mar. 2022
<ul> <li>Designed and posted WordPress website for accepting pre-orders.</li> </ul>	
<ul> <li>Developed temperature chamber control script for BMS component testing.</li> </ul>	
PROJECTS	
CatanAl (WIP), Personal Project, Point Pleasant Beach, NJ	August 2023 - Present
- Developing Java Spring Boot backend to model Catan games, communicating with	
React.js game viewer over REST API calls and PyTorch PPO model over web sockets.	
- Utilizing personal Debian Linux hypervisor for development and testing.	
Bayesian Knowledge Tracing (BKT) Service, ASSISTments, Worcester, Massachusetts	May 2022 – Sep. 2022
- Designed and developed REST API for generating and efficiently retrieving skill	
mastery information.	Mari 2024 Arra 2024
Affect API Service, ASSISTments, Worcester, Massachusetts	May 2021 - Aug. 2021
- Created machine learning REST API to detect student affective states, with UI to	
compare AI models. <u>LIVE-CHART</u> , ASSISTments, Worcester, Massachusetts	May 2021 - Aug. 2021
- Revitalized web application designed to view in-class student assessment activity.	Iviay 2021 - Aug. 2021
<ul> <li>Optimized front and back-end operations to enhance performance.</li> </ul>	
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<ul> <li>Implemented real-time communication between question-answering service and LIVE-CHART.</li> </ul>	
<u>Technologies Used for Projects include:</u>	
Java Spring Boot, Python (Flack, pyBKT, TensorFlow), PostgreSQL, Docker, React.js	
ACTIVITIES / LEADERSHIP	
Vice President, Recruitment Chair, Communications Chair, Finance Chair	Aug. 2019 - Mar. 2022
Elected Positions in Beta Theta Pi Fraternity, Worcester, Massachusetts	
Cyber-Security Club Member	Aug. 2018 - May 2022
Worcester Polytechnic Institute, Worcester, Massachusetts	