

Taylor Cox

Entry Level Software Engineer | Greater New York Metropolitan Area (Open to Relocation)
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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA Dec. '22
Bachelor of Science, Computer Science, GPA 3.5 / 4.0

Dean's List Semester 1 '18, '19

Bachelor's Degree with Distinction Dec. '22

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, PostgreSQL

Operating Systems: Debian / Ubuntu Linux, Windows 7/10/11, Docker

Software: VSCode, Figma, LucidChart, Postman, pgAdmin, Microsoft Office, Google Workspace, Todoist

EXPERIENCE

IT Technician / Software Developer (Part-Time), Aquatecture, Point Pleasant Beach, NJ Aug. 2023 – Pres.

- Material Key Document Generator (see below).

Student Research Assistant – Thesis Work, ASSISTments, Worcester, Massachusetts May '21 - Aug. '21

- Coordinated teams with 3 members on Affect and BKT services. May '22 - Aug. '22
- Built scalable microservices for production.
- Engineered software in line with existing ASSISTments programming practices.

IT Technician (Freelance), eSki, Worcester, Massachusetts Jan. '22 - Mar. '22

- Implemented and posted WordPress website for accepting pre-orders.
- Wrote temperature chamber control script for BMS component testing.

IT Technician / Software Developer Intern, Aquatecture, Point Pleasant Beach, NJ May '14 - Aug. '14

- Designed / developed Overhead Calculator to retrieve Profit/Loss and billable hours information from QuickBooks backend.
- Managed pfSense firewall for geo-IP blocking and network security.

PROJECTS

CatanAI, Personal Project, Point Pleasant Beach, NJ Aug. '23 – Pres.

- Architected Java Spring Boot API for modeling Catan game and Python PPO ML model to train AI to play Catan, using WebSockets for communication.
- Utilizing personal Debian Linux hypervisor for development and testing, and a React.js frontend for viewing games and metrics.

Material Key Document Generator, Aquatecture, Point Pleasant Beach, NJ Aug. '23

- Designed Material Key Document Generator to expedite Material selection in Material Key and reduce data entry errors.

Bayesian Knowledge Tracing (BKT) Service, ASSISTments, Worcester, Massachusetts May '22 - Sep. '22

- Designed and developed REST API for generating and efficiently retrieving skill mastery information.

Affect API Service, ASSISTments, Worcester, Massachusetts May '21 - Aug. '21

- Created machine learning REST API to detect student affective states, with UI to compare AI models.

Technologies Used for Projects include:

Java Spring Boot, Python (Flask, pyBKT, TensorFlow), PostgreSQL, Docker, React.js, C# & WPF (Material Key)

ACTIVITIES / LEADERSHIP

Vice President, Recruitment Chair, Communications Chair, Finance Chair Aug. '19 - Mar. '22

Elected Positions in Beta Theta Pi Fraternity, Worcester, Massachusetts

Cyber-Security Club Member Aug. '18 - May '22

Worcester Polytechnic Institute, Worcester, Massachusetts

CERTIFICATIONS

AWS Certified Cloud Practitioner Nov. '23