TRAE WILLIAMS

Software Developer

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1192 NE 199th Ave, Portland, OR 97230 🏠

SUMMARY

Full-Stack Software Developer with expertise in backend systems, cloud deployment, and scalable architecture. Proficient in Java, C++, Python, SQL, and front-end technologies like HTML, CSS, and JavaScript. Experienced in cloud solutions (AWS, GCP), Docker, and secure authentication. Passionate about building efficient, user-friendly applications.

EDUCATION

Portland State University
Bachelor's Degree in Computer Science
2020-2024

SKILLS

- Backend: Java, C++, C, Python, SQL, Database Management
- Frontend: HTML, CSS, Javascript, Typescript
- Cloud Computing: AWS, Google Cloud Platform, Docker
- Git
- Linux
- Windows
- Agile Software Development
- Foundational: Data Structures, Recursion, Iteration

OTHER LINKS

- github.com/traedwill
- https://www.linkedin.com/in/trae-d-williams/

PROFESSIONAL EXPERIENCE

Embedded Tutor
Portland State University| 09/2023 - 06/2024

- Conducted weekly sessions where we focused on a data structure and how to manipulate and use them using both iteration and recursion in C++.
- Facilitated a learning environment that encouraged problem-solving and applied knowledge which included pair programmed debugging, articulation of logic and visual representations for problem solving.

Technical Assistant
Portland State University| 03/2023 - 06/2024

- Taught over 50 students weekly, incorporating live coding sessions and visual aids.
- Enhanced understanding of core programming topics such as debugging, data structures, problem solving and requirements understanding.
- Fostered student engagement to facilitate learning.

PROJECTS

Contacts Manager (Java Application)
Technologies Used: Java, JUNIT, HashMap, Stack, Queue

- Developed a contact management application utilizing HashMap for efficient storage and retrieval of contact information.
- Implemented a Stack to enable undo functionality for recent contact modifications.
- Integrated a Queue for managing pending contact requests or notifications.
- Designed a robust unit testing suite using JUnit to validate data operations and application stability.

Sign-On System Migration (Cloud Deployment)
Technologies Used: Python, Flask, GCP, Docker

- Migrated a local sign-on system with relational database and card reader integration to a cloud-based and containerized application on GCP.
- Transitioned deployment from PowerShell scripts to a more maintainable Flask-based deployment.
- Utilized SQL relational database for backend storage.