Abel Asfaw

Seattle, WA | (206) 793-2239 | contact@abelasfaw.com

Portfolio: abelasfaw.com
Github: github.com/abel-asfaw

EXPERIENCE

Lockheed Martin | Software Engineer   Apr. 2023 – Present

Modernizing and enhancing maintenance systems software for the F-35. Utilizing Docker for containerization, Kubernetes for orchestration, Helm for package management, and developing in Java, JavaScript, and SQL.

- Collaborated on replacing an outdated API framework, reducing reliance on external APIs and dependencies.
- Streamlined and confirmed test compatibility with other API-dependent services.

Redfin | Software Developer I   Jan. 2022 – Nov. 2022

Engaged in full-stack development for the Selling and Listing Experience (SALE) and Concierge engineering teams. Utilized Java for backend, React and JavaScript for frontend, styled with LESS, and managed data with PostgreSQL.

- Boosted positive user feedback by 30% by optimizing the design and functionality of agent-facing search filters.
- Enhanced Concierge notification consistency by developing email templates, reducing manual edits by 70%.
- Improved project efficiency and reduced issues through regular syncs with developers, designers, and PMs.
- Eradicated weekly hour-long debugging sessions by producing concise documentation for Conductor workflows.

Northrop Grumman | DevOps Engineer Intern   May 2021 – Aug. 2021

Automated build and deployment processes for large-scale ground system solutions in an agile environment.

- Slashed bi-weekly Minio deployment process from 2 hours to 6 minutes using Ansible to automate tasks.
- Reduced time taken on privilege escalation process for testers and developers by 90%, saving 9 minutes daily.
- Championed Ansible adoption by mentoring other interns.

UMBC Department of Computer Science | Teaching Assistant   Aug. 2020 – Jan. 2022

Guided 20 students weekly in Python programming. Provided assignment help during office hours and contributed to assignment creation.

- Received positive feedback from 90% of students on teaching style, according to surveys.
- Refined instructional approaches resulting in improved student assignment performance.
- Provided detailed, meaningful feedback on graded work to facilitate student growth and success.
- Expertly taught complex coding concepts to students with varied experience levels.

UMBC Academic Success Center | Computer Science Tutor   Mar. 2021 – Dec. 2021

Led tutoring sessions for two introductory computer science courses. Instructed students in Python programming basics and C++ OOP principles.

- Built strong student rapport and was recognized by faculty as a dedicated, effective tutor.

PERSONAL PROJECTS

Photography Portfolio | github.com/abel-asfaw/photography-portfolio   Aug. 2023 – Present

Developed a dynamic photography portfolio web app to showcase my photography. Built with React and FastAPI and containerized with Docker. Key features:

- Secure image management with Amazon S3 storage, PostgreSQL metadata, and synchronized uploads and deletions.
- User authentication and controlled photo management via Auth0 on both frontend and backend.

SKILLS

Languages & Frameworks | Java, Python, JavaScript, React.js, FastAPI, SQL, HTML/CSS
Development & Infrastructure | Docker, Kubernetes, Helm, Git, PostgreSQL, GraphQL, RESTful APIs, Auth0

EDUCATION

University of Maryland Baltimore County

B.S., Computer Science | GPA: 3.8