

Ameer Hassan

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SKILLS

Programming Languages: Python, Typescript, Javascript, Java, Go

Frameworks/Libraries: Angular, React, Flask, Node.js, SpringBoot, Spring MVC

Databases: SQL (PostgreSQL, SQLServer), NoSQL (MongoDB)

Cloud Services: AWS (EC2, Cloud 9)

Technologies & Methodologies: Git, Docker, Kubernetes, LaTeX, Jenkins, Puppeteer, Agile, Scrum, Atlassian Suite, Linux OS, VSCode

Fluent in English and Arabic, with working knowledge of Spanish.

EXPERIENCE

UC Davis Health - Applications Programmer III

Oct. 2023 – Present

Technologies Used: Angular, TypeScript, Java, SpringBoot, Spring MVC, SQL Server

- Collaborated with development teams to design, test, and maintain a suite of over 50 individual applications, spanning both backend and frontend applications.
- Contributed expertise in Angular, TypeScript, Java, Spring Boot, and REST-based APIs to develop complex web applications.
- Actively engaged in requirement reviews with Business Analysts to ensure thorough comprehension of project needs.
- Spearheaded the development of a financial aid tracker project, establishing the foundational framework and collaborating with a team to implement additional features based on analyst feedback.

FiscalNote (Curate) - Software Engineer

Feb. 2022 – Aug 2023

Technologies Used: Angular, TypeScript, Python, MongoDB, AWS, Docker, and Kubernetes

- Maintained and helped develop a highly distributed, fault-tolerant web scraper using **Node.js** and **Puppeteer**
- Developed internal tooling for in-house users using the **MEAN stack** and a REST API using **Python/Flask**
- Led the creation of a comprehensive directory as the sole developer, encompassing meeting minutes and agendas from a vast majority of municipalities across the United States
- Worked across several teams encompassing both technical and non-technical staff, providing support, answering questions, offering guidance, and talking directly with stakeholders to fully understand project requirements.
- Supported mission-critical applications in production; monitored and administered a **Kubernetes cluster** hosted on **AWS**
- Mentored multiple junior team members

RESEARCH & PROJECTS

[Open Source Contributions to pyCGM](https://github.com/cadop/pyCGM), <https://github.com/cadop/pyCGM>

Technologies Used: Python (including NumPy, SciPy, sphinx, PyTest), Git/GitHub, GitHub Actions, LaTeX

pyCGM is an open-source python module that allows the user to perform gait analysis.

- Utilized **software profiling techniques** to identify and remove inefficiencies in code, increasing overall codebase performance.
- Helped implement a custom data structure for the I/O to step through the input and output more efficiently.
- Optimized pre-existing calculation methods with functions from external libraries like **NumPy** and **SciPy**.
- Wrote **unit tests** using **PyTest** and enforced rigorous testing and QA standards to ensure that the project remained bug-free.
- Followed Agile/Scrum methodology, with sprints, bi-weekly meetings, and daily standups.

EDUCATION

New Jersey Institute of Technology
Bachelor of Science Computer Science

Newark NJ