Alexander Amog

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Technical Skills

Languages: Python, Java, JavaScript, SQL, Bash, HTML/CSS
Frameworks and Libraries: Spring Boot, Apache Camel, React.js, Express.js, JUnit, Jest, Pytest, TestNG, Flask, Passport, Axios
Tools: Node.js, AWS, Azure, MongoDB, MySQL, Git, Heroku, Linux, Nginx, Maven, Bitbucket, Jira, Confluence

Education

British Columbia Institute of Technology   Jan. 2021 – May 2023 (Expected)
Diploma. Student in Computer Information Technology   *Vancouver, BC*
An intensive two-year program where I learned the latest tools and technologies in areas focusing on programming, cloud computing, and website development.

Work Experience

Software Engineer Co-op   Sept. 2022 – Present
Government of Canada   *Vancouver, BC*
- Implemented Singleton data using **Java** for a project to off-board students automatically
- Developed website routing using **Apache Camel** and **Spring Boot** to allow endpoints to be reached to retrieve **hundreds** of concurrent payloads
- Programmed both unit tests and integration tests using **JUnit** and **TestNG** for several projects to ensure expected functionality and integration
- Implemented error notifications via email for invalid payloads using **Apache Camel**
- Hosted knowledge transfers of technical work to share and collaborate with team members

Site Reliability Engineer Co-op   May 2022 – Sept. 2022
Government of Canada   *Vancouver, BC*
- Deployed several services using **Jenkins** to production for **hundreds** of Canadian citizens to use
- Created and managed **TLS/SSL** Entrust and Let's Encrypt certificates for online security for developers and standard practices
- Automated retrieving server information using **Ansible** to get an overview of server usage
- Created and designed pipeline automation using **Azure DevOps** to manage projects and version control
- Monitored and logged services using **Kibana** to maintain and troubleshoot any oversights

Projects

StudyMates
https://github.com/alexamog/StudyMates
A web application using the MERN stack to pair students alike into a study group.

- Developed login functionality with **Passport** and **Axios** to authenticate and authorize users to use web application
- Implemented a back-end server using **Express** to pair up users into study groups
- Managed and coordinated a team of four members in a time sensitive environment to prioritize work and maximize productivity

CatchCatch
https://github.com/alexamog/CatchCatch
A python-based project using Discord's API to let users win characters

- Designed and structured an **OOP** foundation for code re-usability and performance efficiency
- Integrated asynchronous **API** with code base to deploy instances of the game to online servers
- Programmed unit tests methods using **Pytest** to ensure expected functionality of methods and classes
- Utilized non-relational database for fast and efficient look-ups

RaidMC
Amazon Web Services
A cloud-hosted video game server hosted by AWS for users to join and game.

- Deployed **EC2 Instance** to host server for users to connect
- Integrated **S3 bucket** to store backups of worlds and files
- Reserved **Elastic IP** to reserve public IPv4 address
- Configured DNS using **Route53** for easy connectivity
- Implemented **IAM** roles for users to configure server instance