

Garrett Michiels

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Education

Northeastern University, Boston, MA

September 2020 – August 2024

Khoury College of Computer Sciences

Bachelor of Science in Computer Science

Courses: Software Development | Algorithms | OOD | Networks/Distributed Systems | Database Design

Awards: Khoury College of Computer Sciences Co-Op Award, 2024

Technical Skills

Languages: Java | Python | Bash | SQL | OCaml | HTML | JavaScript | CSS

Libraries: JUnit | GSON | Sockets | React | Swing | NumPy | Pandas

Competencies: Kafka | Kubernetes | Docker | Microservices | Spring JPA & Boot | CI/CD | Authentication | Flyway

Technologies: Git | GitHub | GitLab | GCP | JIRA | Postman | Linux

Experience

BlackBerry, Austin, TX

September 2023 – December 2023

Software Developer Intern/Co-Op

- Collaborated with 10+ member team, communicating with QA and other teams to effectively output features, peer review code, and troubleshoot issues for two high-priority company products.
- Implemented high-performance API bulk update and delete features using Spring JPA database interactions and Amazon Simple Storage Service (S3) operations resulting in improved query processing time.
- Resolved a critical issue related to query filtering functionality. Troubleshot and developed a solution that accurately filtered data using API inputs and specification based base64url encoding, while ensuring data integrity and security. This was a key functionality for SOC analysts to properly sort and analyze security events.
- Integrated extensive audit logging system for API calls within a new Java microservice and utilized existing Apache Kafka services to transfer data to legacy audit system. This implementation enhanced system transparency and facilitated tracking and auditing of admin use within the product's system.

Wellframe, Boston, MA

January 2022 – July 2022

DevOps Engineer Co-Op

- Developed solutions in tight-knit 6-person SCRUM team to streamline operations for engineering and QA teams.
- Leveraged Kubernetes to expedite and automate database operations. This reduced create and delete operation times from 20 minutes to 1 minute and enabled concurrent SQL database instance operations. This allowed for many engineers to use a frequently used process at once and bring their environments back to their desired states.
- Developed an automated mechanism to populate environments with data which replaced existing backup and restore Postgres process, decreasing backup restoration from 40 minutes to 10 minutes using bash. This allowed for faster processes for both QA and newly onboarded engineers.
- Created script for cleaning services from personal environments/namespaces using the Helm CLI in a GitLab job.
- Implemented commands in custom CLI to perform Google Kubernetes Engine (GKE), Cloud SQL, and other operations utilizing Python and various libraries.

Projects

Android Wellness App – Java

June 2024

- Developed a wellness app with daily mood logger, long-term goals tracker, to-do lists, and journaling utilizing a Room database for asynchronous storage.
- Integrated a motivational quote API to provide daily quotes as well as the ability to request more.
- Enabled Google Drive integration by leveraging Android Intents to allow journal entries to be imported.

Git Database Project – Java & SQL

March 2024 – April 2024

- Designed a database schema based on version control to simulate Git with multiple users and user roles.
- Built a CLI application with CRUD operations allowing seamless interactions with database objects utilizing SQL procedures, triggers, and functions to automate processes and enforce data integrity.