Garrett Michiels

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Education

Northeastern University, **Khoury College of Computer Sciences**   Boston, MA
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

Programming Languages: Java | Python | SQL | Bash | OCaml | JavaScript | HTML/CSS
Technologies & Tools: Kafka | Airflow | GraphQL | Kubernetes | Docker | Claude | Cursor | GCP | Git | CI/CD | Postman
Frameworks & Libraries: Spring Boot | Spring JPA | JUnit | Sockets | React | NumPy | Pandas

Experience

Wayfair   Boston, MA
Software Engineer   November 2024 – Present
- Built a Composer Apache Airflow data pipeline with dbt, SQL, Jinja, and Python to aggregate metadata for analysis, ensuring data integrity with deduplication and continuous updates, all executed in under one minute.
- Designed and deployed a Kafka-based agent tracking system handling 400,000+ messages daily, leveraging Avro schemas, Spring Boot JPA, and batch processing to optimize performance and enable real-time status querying.
- Developed and launched a GraphQL endpoint to replace a legacy API, integrating federated client configurations and JWT authentication while utilizing feature toggles and optimizing queries.
- Resolved Twilio binding errors and prevented SMS spam by debugging the messaging workflow and optimizing log management to reduce noise and unnecessary PagerDuty alerts.

BlackBerry   Austin, TX
Software Developer Intern/Co-Op   September 2023 – December 2023
- 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 for users to accurately sort and analyze events, by implementing a code fix for query filtering functionality that accurately filtered data using API inputs and base64url encoding to ensure data integrity and security.
- Integrated extensive audit logging system for API calls within a new Java microservice and utilized Apache Kafka services to transfer data to legacy audit system, enhancing system transparency and facilitating tracking and auditing of admin account use with product system.

Wellframe   Boston, MA
DevOps Engineer Co-Op   January 2022 – July 2022
- Developed solutions in 6-person SCRUM team to streamline operations for engineering and QA teams.
- Leveraged Kubernetes to expedite and automate database operations, reducing create and delete operation times by 95% and enabling concurrent SQL database instance operations; ultimately, this allowed for engineers to utilize multiple frequently used processes at once and bring their environments back to their desired states.
- Developed an automated mechanism to populate environments with data replacing existing backup and restore Postgres process, decreasing backup restoration from 40 minutes to 10 minutes for improved workflows.
- 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.

Interests

Fintech | Golf | Pickleball | Investing | Entrepreneurship | Product Ideation | Comedy | Alto Saxophone | Classic Rock