NAHOME KIFLE

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WORK EXPERIENCE

Software Engineer, *American Express* | Phoenix, AZ   June 2025 - Present
- Enabled faster data access for analytics teams by **building backend services for an internal data delivery platform**, supporting **10+ downstream data engineering workflows** by **developing and integrating REST APIs within a microservice-based architecture**.
- Reduced manual data retrieval effort by **automating backend validation and delivery logic**, cutting **end-to-end request processing time from minutes to seconds** and improving reliability for **recurring internal data requests**.
- Improved system maintainability and deployment consistency by **containerizing backend components with Docker** and **integrating services into an existing internal platform**, streamlining development and rollout for the team.

Database Manager Intern, *VCU Health Hub | Richmond, VA*   September 2024 - May 2025
- Automated data intake for 500+ monthly community clients by integrating Google Forms with a **Flask/PostgreSQL backend**, eliminating manual entry and improving data accuracy and retrieval speed.
- Built a responsive web dashboard using **HTML/CSS** and **Bootstrap** to visualize program engagement data, enabling monthly insights used by health coordinators and grant managers for decision-making.

Software Engineering Intern, *VCU Hospital | Richmond, VA*   August 2024 - May 2025
- Engineered a streamlined data retrieval system using **React.js**, **Node.js**, and **PostgreSQL**, reducing average response time by 3 seconds and decreasing server load by 15%.
- Developed and load-tested a GPT-powered medical search feature with Docker Compose and JMeter, sustaining sub-200ms response times under 100+ concurrent users.

EDUCATION

Virginia Commonwealth University, School of Engineering and Applied Science   Richmond, VA
B.S. in Computer Science   **May 2025**

SKILLS

Languages: Java, Python, SQL (MySQL, PostgreSQL, BigQuery, Hive), PHP, C, JavaScript, HTML/CSS
Frameworks/Developer Tools: Spring Boot, Flask, Node.js, React.js, Bootstrap, REST, Git, JUnit, Gradle
Big Data & Cloud: PySpark, Hadoop, Hive Airflow/Composer, Google Cloud Platform (GCP), AWS

PROJECTS

Job Application & Recruiter Scraper Tool   July 2025 - Present
- Built a full-stack job tracking tool using **Flask**, **PostgreSQL**, and **BeautifulSoup** that allowed users to log applied roles and automatically scrape recruiter names, titles, and contact links from LinkedIn and company career sites.
- Designed a **React** dashboard with filters, status tracking, and recruiter match indicators based on job title, company, and location, reducing manual follow-up time and improving application tracking accuracy for 50+ job submissions.

TSA Wait Time & Departure Planning Backend   October 2024 - November 2024
- Delivered a **production-style Flask REST API** by **designing a service-oriented backend** that supports **multi-airport queries** and processes **100–300 checkpoint records per request** into normalized wait-time summaries (overall, Standard, PreCheck).
- Enabled consistent low-latency responses by implementing in-memory **caching** and backend-level aggregation, allowing the API to **reliably serve 200–500 requests per hour** while returning **frontend-ready JSON** with minimal client-side logic.

Ethiopian Cultural Store   October 2024 - November 2024
- Developed a culturally themed e-commerce platform using **Flask microservices** and **PostgreSQL** to manage modular Product and Cart services, enabling real-time inventory updates and seamless transactions via **RESTful APIs.**
- Integrated a **React-based frontend** and deployed on **AWS EC2** with **Docker,** enhancing user experience and scalability, which contributed to **onboarding 100+** unique customers through reliable and responsive service architecture.