Shariq Lalani

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EXPERIENCE

HrHouz   San Francisco, CA
Software Engineer Intern   *March 2024 - June 2024*
- Developed a Flask-based analytics API that transformed candidate reference data for advanced analytics, including sentiment analysis, behavioral insights, and candidate summaries saving employers 5 hours per candidate
- Engineered custom functions within the API to generate radar charts, perform sentiment analysis, and provide an overall candidate evaluation, optimizing decision-making for employers
- Automated infrastructure deployment leveraging Docker, AWS, and Terraform ensuring scalability and reliability

University of Pennsylvania   Philadelphia, PA
Graduate Teaching Assistant   *July 2023 - Present*
- Led recitations, private office hours, and managed discussion forums in software development for Python and Java & data analytics courses for 100+ students

Aisin Technical Center of America   Northville, MI
Project Engineer II   *October 2018 – November 2022*
- Performed statistical analysis with Python and Excel to assess system performance on over 15 products
- Validated electromechanical systems using benchmarking and root cause analysis, driving $100K in annual savings
- Reviewed federal/customer specifications and documented testing processes to ensure correctness and repeatability

EDUCATION

University of Pennsylvania   Philadelphia, PA
Master's degree, Computer Science | Magna Cum Laude   *August 2022- December 2024*

University of Michigan   Ann Arbor, MI
B.S Mechanical Engineering   *August 2013- December 2017*

PROJECTS

Project Manager Application | *Java, PostgreSQL, SpringBoot, JPA, Hibernate, Angular, Typescript, TailwindCSS*
- Implemented 20+ RESTful endpoints to track user, company, and team interactions for FT graduates
- Built a multi-page frontend allowing users to log in, access a user repository, and view company announcements
- Designed a relational database schema and ERD, ensuring efficient data mapping and retrieval of correlated entities

Twitter Clone | *Java, PostgreSQL, Javascript, Angular, SpringBoot, JPA, Hibernate, Git, Postman*
- Developed a RESTful web service with 30 endpoints using Spring Boot, JPA (Hibernate), PostgreSQL to implement CRUD operations for core features like tweet creation, user mentions, hashtags, and user profile/credentials
- Utilized onion architecture model to implement entity, repository, service, and controller classes for low coupling

Neighborhood Recommendation App | *JavaScript, Node.js, React, MySQL, AWS, Git*
- Developed a full-stack application using Node.js, Amazon RDS, MySQL, and React to compare neighborhoods in the US and UK, identifying ideal living locations based on housing, walkability, and air quality data
- Designed and implemented a database schema to efficiently handle over 70K records and optimized query performance by 50% enabling fast queries on key neighborhood attributes

PennSearch Search Engine | *C++, GDB, Linux, Git*
- Developed a Peer-to-Peer Search Engine which efficiently stores and retrieves documents via a Distributed Hash Table using C++ and NS3 network simulator
- Implemented the Chord distributed lookup protocol, which executes as an application-layer overlay network on top of network-layer routing protocols (Link-State and Distance-Vector)

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, JavaScript, HTML, CSS (Tailwind), SQL (Postgres, MySQL), NoSQL (MongoDB)
Frameworks: React, Node.js, JUnit, Spring Boot, Angular, Flask,
Tools/Certifications: Linux, Git, Docker, AWS Certified Cloud Practitioner (Issued May 2023)