Angela Tolwani

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SUMMARY

Full-stack software engineer with strong experience in building user-facing applications using modern web technologies. Problem-solver with a background in biomedical engineering, combining technical and analytical skills to deliver intuitive and high-quality user experiences. Passionate about using technology to advance life sciences.

TECHNICAL SKILLS

Programming Languages & Frameworks: JavaScript (React, Node.js), Python, HTML, CSS
Computer Science Fundamentals: Responsive Design, Data Structures, Algorithms, Object-Oriented Design
Tools & Platforms: AWS (S3, EC2, IAM), Docker, Steampipe, Git, GitHub

EXPERIENCE

Openprise | Full-Stack Software Engineer Intern   09/2024 - Present
- Developing a custom AWS S3 utilization dashboard using **Steampipe** and **Docker** to aggregate and monitor storage usage across multiple S3 buckets, including those with large datasets
- Implementing query optimizations and container resource management to improve data retrieval
- Enhancing data processing and storage by leveraging **Steampipe's PostgreSQL** backend for efficient queries and serialization into JSON, subsequently storing results in a **MySQL database** to power the dashboard

DVM Success | Full-Stack Software Engineer (Contract)   04/2024 - Present
- Designed and maintained a web application using **React** and **Python/Flask**, serving as a patient management system and telehealth scheduling platform for veterinarians
- Architected database schema in **PostgreSQL** to optimize relational data storage, conducting schema migrations for performance enhancement
- Developed and integrated **RESTful API** architecture, including **OpenAI's API** to reduce administrative workload and **Calendly and Stripe APIs** for seamless telehealth appointment scheduling
- Collaborated with founders and engineering team members, iterating quickly based on business needs, as the platform scaled from 0 to 50 users

The Dedham Group | Life Science Senior Analyst   02/2022 - 09/2023
- Developed market access strategies for pharmaceutical clients launching novel oncology drugs, with a focus on targeted therapies and companion diagnostics
- Analyzed extensive healthcare claims data to segment patient populations, identify trends in treatment patterns, and optimize payer contract strategic recommendations for clients

Rover Diagnostics | Biotechnology R&D Engineer   03/2020 - 12/2021
- Spearheaded development of a sample prep device for an RNA-based point-of-care diagnostic device, contributing to faster and more accurate detection of infectious disease (COVID-19)
- Worked closely with engineers, manufacturers, regulatory boards, and nurses to provide innovative solutions to complex technical challenges, resulting in reduced detection time by 70%

Stanford University | Life Science Researcher   10/2018 - 08/2019
- Conducted research on the role of genetic mutations and expression profiles in cancer progression, focusing on their potential as prognostic and therapeutic targets
- Correlated large genetic and proteomic datasets with clinical outcomes using **Python** and **R**

EDUCATION

Flatiron School, New York, NY | Full-Stack Software Engineering Bootcamp   2024
Columbia University, New York, NY | M.S. Biomedical Engineering   2020
University of California, Davis, Davis, CA | B.S. Biomedical Engineering   2018