ANIEERUDH GOKULAKRISHNAN

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EDUCATION

University of California, Los Angeles (UCLA)   Los Angeles, CA
Bachelor of Science in Computer Science   *June 2024*

EXPERIENCE

Software Engineer Intern   June 2024 – Present
Infosys   *Bengaluru, IN*
- Transitioned LiDAR data into training datasets for self-driving cars, handling 270 million data points
- Developed a 3D map (React and Typescript), tracking 50+ self-driving cars on Infosys campuses using WebSocket
- Optimized PostgreSQL with PostGIS for spatial data, including GiST indexing and partitioning

Software Engineer   March 2021 – Present
California Transportation Commission   *Sacramento, CA*
- Developed a dynamic, interactive map to facilitate the analysis of commuter traffic patterns in local highways
- Used ReactJS with Mapbox for geospatial data visualization; Enhanced data retrieval speeds by 50% with Redis
- Engineered a system to provide users with real-time traffic updates, and notify accidents and road conditions
- Integrated WebSocket for live data streaming and used a REST API layer (Node.js) that interfaced with MongoDB
- Wrote unit and functional tests to increase code coverage from 65% to 90%, ensuring a scalable platform
- Used Git for version control, integrated CI/CD pipelines with Azure DevOps, reducing deployment times by 30%

Technology Student Intern   June 2019 – August 2019
Powerschool   *Folsom, CA*
- Developed a platform for students to optimize school schedules via ML algorithms to match student needs
- Enhanced predictive model accuracy using Python and TensorFlow for efficient forecast of optimal schedules
- Developed API endpoints with Java and Spring Boot to provide student data for the ML algorithms

PROJECTS

Skill Swipe – *Full Stack Job Search App*
- Mobile app that connects UCLA recruiters and job seekers with a heuristic-based matchmaking algorithm
- Used MERN stack framework, integrating RESTful APIs with AWS S3 Buckets to store user media
- Built the front-end with React-Native and JavaScript, utilizing Styled Components for responsive UI/UX design

Clever Cloud – *Machine Learning Project*
- AI-driven file management platform using React and Flask, integrating vector search with $O(1)$ time complexity
- Used multimodal embeddings for content-based search and 3D visualization, enabling intuitive PDF management
- Integrated Pinecone for vector search and MinIO for storage, improving search performance and data handling

Denote – *Note-Taking App with LLM Integration*
- Developed an all-in-one note-taking app with AI-driven features, addressing the need for dynamic educational tools
- Built with React, Electron, Node.js, p5.js for drawing, Desmos API for graphs, integrated math equation support
- Integrated OpenAI's GPT API to provide smart prompts, auto-complete notes, and enhance content beautification

AI Finance Coach – *Infosys InStep BizHacks Project*
- Built a user dashboard with React and FastAPI; predicts credit score trends; offers AI-driven improvement plans
- Built an admin dashboard to visualize aggregate data based on natural language queries (GenAI)
- Integrated an AI voice bot delivering personalized financial advice by analyzing user credit scores and details

TECHNICAL SKILLS

Languages: C, C++, Python, Java, C#, HTML, CSS, Javascript, SQL, Bash, Lisp, Haskell, Verilog
Frameworks and Developer Tools: Azure DevOps, AWS, PostgreSQL, Pinecone, MinIO, Jenkins, Git, MongoDB (NoSql), Express, React, Angular, Node, Docker, Redis, Flask, FastAPI