Adithya Anandsaikrishnan

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EDUCATION

University of California, Irvine — September 2020 - June 2024
Bachelor of Science in Computer Science — *Irvine, CA*
- **GPA**: 3.56/4.00
- **Achievements and Awards**: Regents' Scholarship, Dean's Scholarship, Dean's Honor List
- **Relevant Courses**: Databases & Web Applications, Data Management, Machine Learning, Project in AI

SKILLS

Languages: Python | JavaScript | TypeScript | HTML | CSS | C# | Java | SQL
Technologies: React | Angular | Svelte | Node.js | Express.js | Nest.js | PostgreSQL | MongoDB | Pandas | NumPy

RELEVANT EXPERIENCE

Digital Experience Bachelor's Intern — June 2024 - August 2024
Kaiser Permanente — *Pleasanton, CA*
- Assisted rewrite from Java Spring backend to Nest.js architecture, taking full ownership of 4 complex routes
- Established correctness and quality of architecture by writing 51 test cases with 100% test coverage through Jest
- Maximized code base efficiency, cutting each file's size by 45%-55% while maintaining equal functionality
- Integrated 2 external API services into route, acquiring user information not contained in PostgreSQL database

Projects Committee Developer — November 2022 - June 2024
UCI ICS Student Council — *Irvine, CA*
- Drafted project requirements document (PRD) on a team of 6 for a student-facing event scheduling website
- Designed schema for data objects using PostgreSQL and Drizzle ORM, mapping over 11 tables and their relations
- Implemented front-end user flow for scheduling via Svelte and TypeScript (TS), allowing users to setup meetings

Communications Team Software Developer — April 2023 - January 2024
UCI CubeSat — *Irvine, CA*
- Programmed API on Express.js backend that returns downloadable CSV of up to 50,000 most recent satellite logs
- Mentored colleague, assisting with implementation of React components via hands-on guidance and diagrams
- Enforced TypeScript and data validation library Zod to ensure proper formatting and sanitization of API fields

R&D Software Developer Intern — June 2022 - September 2022
AVEVA — *Lake Forest, CA*
- Developed in-house JavaScript tool for real-time application status monitoring, slashing debugging time by 20-30%
- Maintained 5 Angular components in UI component library, adopted as style default in customer-facing products
- Reduced backend latency on performance tests from 100ms to 25ms through implementation of SignalR in C#
- Maximized error prevention efforts through 90% code coverage on Mocha and assigning 2 reviewers per pull request

PROJECTS

To Be Detected - AI Electricity and Settlement Detection Model — January 2024 - March 2024
- Collaborated with team to preprocess and transform 18GB worth of satellite datasets for machine learning model
- Implemented 4 segmentation models with PyTorch Lightning, achieving median training accuracy of up to 80.6%
- Generated 3 plots through MatPlotLib and 26 graphs on Weights and Biases (wandb) to visualize model metrics

Movie Database Application — September 2022 - December 2022
- Programmed a 60,000 movie database JavaScript and Android application hosted on AWS through Tomcat
- Optimized MySQL database queries on Java backend using a JDBC driver to enable under 275ms movie searches
- Constructed an ETL pipeline to import, parse, and sanitize 10-65K line XML files and update the movie database

BlogRings — August 2022 – September 2022
- Architected forum website with React and TypeScript, implementing authentication with Auth0 for secure login
- Instituted REST API with Express.js, enabling efficient blogging alongside a real-time chat feature using Socket.IO
- Stored representation of rich-text blog data and chat logs through MongoDB to enable message persistence