

Akash Patel

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Experience

Skillful.ly | Head of Engineering

Apr 2023 - Present

- Translated business requirements into detailed technical specifications and project roadmaps, delegating tasks across a team of 15 engineers to ensure alignment between objectives and development execution
- Architected serverless workflows using AWS Lambda and Step Functions to enable low-cost asynchronous communication and task orchestration across various applications and microservices
- Implemented AWS Amplify as well as API Gateway to deploy applications with cloud managed CI/CD for developers and secure networking protocols across multiple servers
- Employed TypeScript for static typing to reduce interpretation errors caused by type coercion and improve code readability when working with other developers
- Optimized delivering large amounts of data with low latency using React-Window + React-Query to implement lazy loading, caching, and revalidation on top of a Next.js frontend
- Defined an NestJS/Node.js server with PostgreSQL models to represent scalable tables for users and metadata, making use of keys to create relational maps for efficient selective queries

Stitchology | Software Engineer

Dec 2021 - Apr 2023

- Created utility functions with modern syntax for SQL database queries, resulting in optimized performance and enhanced scalability of the application
- Streamlined the development process by implementing TDD with Jest and SuperTest for both database queries and Express middleware to reduce the need for manual debugging
- Configured Docker for Windows and Linux OS by managing dockerfiles and interacting with the desktop app to create lightweight containers to improve software consistency and reduce deployment time
- Conducted onboarding sessions for junior engineers through one-on-one code reviews providing guidance to ensure the implementation of engineering best practices

Open Source Contributions

Aug 2020 - Present

Ghost | *AWS Lambda Metrics Tool*

- Adopted the Amazon Web Services software development kit and command line interface in order to configure permissions and request data from multiple cloud services
- Leveraged Electron JS to develop cross-platform desktop applications by bundling Node.js and Chromium runtimes, providing a seamless user experience across Windows, MacOS, and Linux operating systems

Decentral LA | *Cryptocurrency for Brands*

- Integrated the MetaMask API to leverage secure user authentication and allow transactions with optimized security protocols while adhering to decentralized application protocols
- Developed a Python script with the PIL library to generate randomized images with a weighted distribution of traits based on client specifications
- Deployed custom smart contracts with Solidity on the Ethereum blockchain to define transaction limits while testing functionality with Goerli Testnet

Technical Skills

- Languages: JavaScript, TypeScript, Python, HTML/CSS, SQL, Solidity, Go, Bash
- Frameworks/Libraries: React, Redux, Express.js, Node.js, SASS, TailwindCSS, Jest, Next.js, Django
- Tools: Git (GitHub), Docker, AWS (EC2, S3, Lambda, RDS), CI/CD, Linux

Education

- **UCLA** | Molecular Genetics | Bachelor of Science | GPA: 3.74

2016 - 2020