

# Surya Ramesh

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## Education

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**University of California, Berkeley**

Berkeley, CA

*Bachelor's in Computer Sciences*

*Aug. 2019 – Dec. 2022*

- Relevant Coursework: Operating Systems, Machine Learning, Databases, Deep Neural Networks, Computer Vision, Computer Security, Data Structures, Algorithms, Discrete Mathematics

## Experience

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**Canal**, ecommerce startup

San Francisco, CA

*Full Stack Software Engineer*

*Jan. 2023 – Present*

- Managed the payments infrastructure using Stripe and Plaid, handling millions of dollars in annual transactions globally and reducing payment errors by 30%.
- Launched an AI product categorization tool using GPT 4o-mini, Claude 3 Haiku, and Gemini Flash LLMs, optimizing classification for over 100k products while minimizing operational costs.
- Designed and built a custom data analytics warehouse in PostgreSQL, processing large datasets and generating actionable insights into customer behavior.
- Enhanced user experience by optimizing Django database queries and settings, improving front-end application performance and reducing load times by 80%.
- Spearheaded new integrations with platforms like TikTok, enhancing cross-platform functionality and expanding market reach.

**Veeva**, life sciences cloud software

Pleasanton, CA

*Software Engineer Intern*

*May 2022 – Aug. 2022*

- Architected a modular UI component library (similar to Storybook.js) capable of generating documentation and displaying interactive examples built with Javascript, React, and Webpack.
- Replaced existing static documentation used by 100s of developers with the interactive component library application and reduced implementation time by 20% for all future app development.

**Amazon**, ecommerce and cloud software

Seattle, WA

*Software Engineer Intern*

*May 2021 – Aug. 2021*

- Developed full-stack module using Java, JavaScript, and React for Amazon Flex mobile application currently deployed in India to add multiple driver transportation modes for last mile deliveries.
- Reduced expenses by 30% during peak seasons for third-party delivery services and diversified the delivery provider pool to drive \$1.9M in savings on the Last Mile Delivery team.

**Relentlo**, advertisement startup

Berkeley, CA

*Founding Engineer*

*Nov. 2020 – Jan 2022*

- Led a backend team of 5 engineers to develop cloud services and custom SDKs, optimizing ad display to handle 1M+ daily impressions and increasing user engagement by 15%.
- Created targeted advertising methods in JavaScript to boost user engagement with brands by 15%.
- Implemented core frontend features of the client and admin pages using ReactJS, Node, and Redux.

## Honors & Awards

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- **Final Round Winner | Jane Street**: Placed first in Jane Street's electronic trading challenge.
- **International Semi-Finalists (Top 15) | RoboSub**: Manufactured and wrote software for an autonomous submarine capable of identify objects in images and navigating an obstacle course
- **Deep Learning Specialization | Coursera**

## Skills

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- **Programming Languages**: Python, TypeScript, SQL, NoSQL, Javascript, Java, C/C++, Go
- **Frameworks and Tools**: Django, ReactJS, Redux, GraphQL, TensorFlow, PyTorch, OpenCV
- **Cloud Services**: AWS (DynamoDB, CloudFormation), Google Cloud Platform, Kubernetes