

# Divyank Shah

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## Education

### University of California - Riverside

MS in Computer Science

BS in Computer Science

Riverside, California

March 2024 - March 2025

September 2021 - March 2024

## Technical Skills

**Languages:** JavaScript, TypeScript, React, React Native, Python, C++, HTML, CSS, SQL

**Developer Tools:** Git, Github, PyTest, Cypress, Google Cloud Platform, Github Actions, Concourse CI

**Technologies:** Next.js, Expo, TailwindCSS, PostgreSQL, MongoDB, InfluxDB, Grafana, Vector Search, FAISS, TensorFlow

**Management:** Jira, Confluence, Scaled Agile Framework 5, Scrum, Github Projects, Azure DevOps

## Experience

### Cisco

Software Engineering Intern | Distributed Systems

San Jose, California

July 2024 - Present

- Construct FireX Auto Triaging system to infer failure reason on testlogs reducing developer intervention by 20%
- Utilize Facebook AI Similarity Search (FAISS) to index FireX logs and semantically search across 3000+ documents
- Embed testlogs with Hugging Face's all-MiniLM-L6-v2 & integrate with LangChain to build FAISS IndexFlatL2
- Undertake Next.js + Typescript + Shadcn labeling dashboard to display MongoDB data points via aggregation pipeline
- Extend FireX testing plugins to automatically parse and push XML testcase logs to MongoDB

### Zybertech

Software Engineer | Fullstack

Simi Valley, California

April 2024 - Present

- Architect Android based React Native Expo self-ordering kiosk app for Farmer Boys Kiosk Pilot in August 2024
- Rewrote file based API cache to reduce Point of Sale (POS) requests by 80% with 24 hour cache retention policy
- Integrate Worldpay TriPOS Payment API with custom Kotlin wrapper to provide P2PE PCI certified payments
- Implement 18+ screens to handle member and guest user flows to personalize ordering experience

### Comcast

Software Engineering Intern | Fullstack

Philadelphia, Pennsylvania

June 2023 - September 2023

- Upgrade Foresight web app to use **Node.js 18** from v12 to increase performance and reduce security vulnerabilities
- Merge **Express.js** API with Foresight web app to reduce running containers by 50% & increase performance by 25%
- Refine project name input data validation API to prevent name duplication and provide useful error messages
- Enhance SNP **Storybook** webcomponents to resolve 10+ **Mend** alerts to maintain quarterly security compliance
- Design and develop **Slack** based VM telemetry system with 4 panel **Grafana** dashboard pulling from **InfluxDB**

### Comcast

Software Engineering Intern | Distributed Systems

Philadelphia, Pennsylvania

June 2022 - February 2023

- Fabricate 5+ **Concourse** pipelines to check linting, formatting, whitesourcing, testing
- Compute event-triggered TTR to enhance accuracy for 1000+ daily alerts & visualize with **React** dashboard
- Migrate & mock unit-test auto-remediation platform from **Stackstorm** to **AWS Step Functions**
- Standardize 50+ **Python** auto-remediation scripts to fit security requirements and **AWS Step Function** compatibility
- Write & automate 320+ unit tests via **PyTest** and **Concourse** to ensure 15+ APIs' robustness with 95% code coverage

## Leadership

### Association of Computing Machinery at UCR

Projects Director

Riverside, CA

March 2022 - Present

- Initiate 50+ projects including websites, educational tools for UCR CSE department, clubs with 200+ developers
- Lead 8+ weekly career workshops covering resumes, interviews, research, graduate studies, course planning, internships to increase member retention by 30%
- Instruct 16+ weekly web development workshops covering **React**, **Next.js**, **TailwindCSS**, and **Next Auth**
- Spearhead 50+ developer team over 12+ month **AGILE** development process for all-purpose hackathon website

## Teaching

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### University of California, Riverside

Riverside, CA

*Data Structures and Algorithms Teaching Assistant - Professor Patrick Miller*

*Spring 2024*

- Work with 300+ students teaching lists, stacks, queues, trees, heaps, hashables, graphs
- Take programming and laboratory assignments whiteboard demos encouraging students to think critically about new problems and approaches
- Hold weekly office hours to help students debug, review and understand course content
- Instruct 16 x 1 hour quiz preparation/review sessions to prepare students for biweekly quizzes
- Hold 3 x 3 hour final review sessions to assist students with final preparations
- Grade variety of quizzes, finals, programming/laboratory assignments encouraging better code quality

### Code Ninjas

Fremont, CA

*Computer Science Instructor #2 - Code Sensei*

*June 2021 - September 2021*

- Host summer camps including Roblox Studio, Minecraft Modifications, 3D Printing, Python/Scratch programming
- Lead Create, Junior, After School programs and tours for over 30+ students
- Improved corporate curriculum by creating 50+ supplementary Javascript practice sets with solutions
- Encouraged incorporation of various resources & teaching practices to instructor team to enhance student learning
- Initiated Tik Tok account to increase social presence and increase follower count from 0 to 200+ and 8K+ likes

### California Robotics Academy

Fremont, CA

*Founder*

*August 2019 - September 2021*

- Develop 12+ Python, Java, Arduino, TinkerCad curriculums with example demos and train 20+ instructors
- Supervise 28+ weekly camps covering topics in embedded systems, data structures in Python and Java, 3D modeling
- Provide 200+ 2nd - 12th graders with a safe and inspiring learning environment with 65+ positive reviews
- Organize charity events (\$600+ donations to Beirut Red Cross, CA Wildfires, Abode Homeless Shelter)
- Schedule, supervise, promote, advertise classes through social media, person-to-person communication

### First Lego League

Fremont, CA

*Innovant Bots # 46674 Student Coach*

*August 2020 - September 2021*

*The Athenians # 45077 Student Mentor*

*August 2019 - January 2020*

- Introduce LEGO robotic mechanisms, sensors, programming data structures, odometry
- Host 12+ online workshops covering Scratch programming and usage of ultrasonic and IR sensors
- Co-host 2 outreach events to educate community about First Lego League and energy sustainability projects
- Work alongside 15+ middle schoolers to develop/further their interest in robotics and STEM

## Projects

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**Hackathon Portal** | *Next.js, Google OAuth, TailwindCSS, Drizzle, SQLite*

[github.com/acm-ucr/hackathon-website](https://github.com/acm-ucr/hackathon-website)

- Supervise 50+ developer team over 12+ month **AGILE** development process for all-purpose hackathon website
- Virtualize table and dropdown components with Tanstack Table and Virtual to reduce response time & user lag by 60%
- Spearhead judging portal to virtualize judge assignment reducing judging delays by 75 - 80% across 5+ hackathons
- Integrate Google OAuth with Next Auth to implement role based authentication on client and server
- Add Resend Email Automation to update user application status reducing operations team's workload by 30%
- Implement QR code based checkin system with live QR codes reducing wait times by 60% and preventing false checkins
- Migrate to Turso (SQLite) with Drizzle ORM to enhance query performance & developer experience by 50%

**Speech Master** | *Next.js, HumeAI, TensorFlow, Socket.io*

[devpost.com/software/speech-master](https://devpost.com/software/speech-master)

- Won 2nd place at CalHacks 10.0 by leveraging emotional analysis and pose detection models to improve public speaking
- Utilize TensorFlow MoveNet model to detect 17 body points in realtime & send alerts to users flagging bad posture
- Stream realtime audio and visual presentation feed over Socket.io to receiving clients with live chat