

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, C, C++, Java, C#, Bash, Shell Scripting, SQL, R
- **Web Development:** ReactJS, NextJS, Redux, React Router, Tailwind CSS, Webpack, Material-UI, WebSocket, Preact, Figma
- **Backend Development:** NodeJS, ExpressJS, Flask, Django, Angular, FastAPI, ASP.NET Core, REST API, Spring Boot, Maven
- **Databases:** MongoDB, PostgreSQL, MySQL, NoSQL (Redis, Cassandra, Firebase), Kafka, Spark, PySpark, Apache Airflow
- **Cloud:** Google Cloud Platform (GCP), AWS (Lambda, Sagemaker, S3 Bucket), Microsoft Azure, Docker, Kubernetes, Jenkins
- **Tools:** Mongoose, PyMongo, Postman, Git, Jira, TensorFlow, Keras, PyTorch, LLM, Selenium, Cypress, Jest, JUnit, Agile, SaaS

## EXPERIENCE

- **Copal AI** San Jose, CA  
*Software Engineer* June 2024 - Present
  - TechStack: TypeScript, ReactJS, Node, MySQL, Python, GCP Firebase, Vite, Radix, SaaS, WebSocket, Figma, WCAG
  - **Architected** the core *course creation system* for Copal's SaaS MVP using TypeScript and React, achieving a **50% faster response time**. Partnered with UI/UX teams to align design standards with Figma, ensuring cohesive product design.
  - Enhanced **real-time data sync** by developing **Firebase queries** to manage frequent updates for multiple users. Introduced **worker queues** for batch updates, reducing lag and ensuring data consistency during high user activity.
  - Developed and integrated essential, reusable components, such as an AI-powered chatbot, Drag-and-Drop modules, CourseMap, completing **30+ high-priority features** that expedited the release cycle and increased development efficiency by 40%
  - Instituted version control, safeguarding module history & schema uniformity, preventing data inconsistencies in user sessions.
- **SJSU Research Foundation** San Jose, CA  
*Fullstack Developer* Feb 2024 - Aug 2024
  - TechStack: Express, ReactJS, Redux, MongoDB, Mongoose, GCP Firestore, Buckets, Cloud Run, Docker, SaaS, WCAG, ADA
  - Developed a **multilingual platform** for the AANHPI community, facilitating resources in **80+ languages**. Enhanced accessibility & engagement by enabling broader community interaction and **resource-sharing** tailored to diverse linguistic needs.
  - Integrated advanced **LLM-powered modules** for real-time **translation, semantic search, question-answering, & multilingual contributions**, expanding platform's functionality & user engagement with diverse, on-demand resources.
  - Automated deployment using **Docker** and **GCP Cloud Run**, containerized services with **Kubernetes** to ensure high availability & seamless scaling. Implemented resilient storage & retrieval with **GCP Storage**, optimizing availability during peak usage.
- **Cognizant - ASOS** Pune, India  
*Software Engineer* Feb 2022 - July 2023
  - TechStack: ExpressJS, ReactJS, MySQL, Microsoft Azure, REST APIs, Microservices, HTML, CSS
  - Re-architected ASOS's stock and fulfillment platform, implementing a modernized TypeScript and React codebase reducing **server response times by 50%**. Fabricated a UI overhaul with intuitive navigation, global search, and interactive components.
  - Implemented a microservices architecture leveraging **Node.js, Docker, & Azure serverless functions**, ensuring scalable resource allocation. Automated containerized deployment for load balancing & orchestration, boosting resilience & scalability.
  - Restructured model classes for personalized alignment & formulated **Python** scripts for data migration and syncing across **PostgreSQL** and **MongoDB**. Automated **logging & diagnostics** with Elasticsearch, reducing diagnostic time by 40%.
- **Intangles Lab** Pune, India  
*Software Engineering Intern* Feb 2021 - Feb 2022
  - TechStack: Python, Flask, MongoDB, TensorFlow, Computer Vision, RabbitMQ, API
  - Devised data-driven insights, enabling transit companies (RedBus, Volvo etc.) to achieve a substantial **20% reduction in fuel consumption** and capturing **fuel theft amounting to \$3.5 Mn** through real-time monitoring and anomaly detection
  - Proposed and engineered a high volume, end-to-end data pipeline aiding in capturing live driver images, amassing a robust dataset of **16,000+ images** across varying conditions to enhance system's robustness & achieving new **accuracy benchmarks**.
  - Leveraged YOLOv4-tiny & FaceNet model with a custom fully connected network for object detection & face recognition with F1 scores of **0.84 & 0.91** respectively, resulting in driver **identification using only 3 low resolution images**.

## EDUCATION

- **San Jose State University (SJSU)** San Jose, CA  
*Master of Science - Computer Engineering (GPA - 3.83)* August 2023 - Present
- **Savitribai Phule Pune University (SPPU)** Pune, India  
*Bachelor of Engineering - Computer Engineering (GPA - 3.72)* August 2018 - May 2022

## PROJECTS

- **TestPrep (Link)** - Designed a MVP for tests preparation, supporting over **1,000 users**. Enhanced test loading performance with **MongoEngine**, updates within **2 seconds**. Increased engagement by **25%** with dashboard, week-on-week progress & adaptive UI.
- **NexusHub:** Developed a knowledge-sharing platform using GraphQL, Kubernetes, AWS Lambda, supporting 1,000+ users for document sharing, discussions, & annotations. Achieved interactions for 6,000+ encrypted messages, ensuring secure communication on par with Apple's iMessage. Enhanced efficiency, optimizing performance by **35%** & maintaining **99.9%** uptime. Leveraged serverless architecture for dynamic scaling and achieved a 45% reduction in latency by distributing storage across MongoDB clusters. Increased engagement through a responsive UI, delivering a seamless experience inspired by Twitter & Slack's interfaces.