Ambarish Kshirsagar

Los Angeles, CA | askshirs@usc.edu | (213)255-6522 | Linkedin | Portfolio | GitHub

EDUCATION

University of Southern California	
Master of Science in Computer Science Relevant Coursework: Algorithms, Database	GPA: 4.00/4.00 Systems, Web Technologies, Deep Learning
8.,	<i>b b b b b b b b b b</i>

Savitribai Phule Pune University

Bachelor of Technology in Computer Engineering GPA: **4.00/4.00** Relevant Coursework: Operating Systems, Artificial Intelligence, Compilers, Networks

SKILLS & RESEARCH INTERESTS

Languages	: Java, Javascript, Typescript, SQL, HTML, C++, Python	
Frameworks	: React, Node, Express, Angular, TailwindCSS, Spring, Next.js, Flask, PyTorch, OpenCV, TensorFlow	
Databases	: MySQL, PostgreSQL, DynamoDB, MongoDB, Redis, Firebase	
Cloud & DevOps	: GCP, AWS Lambda, Jenkins, Docker, Kubernetes, Terraform.	
Other Tools	: Git, GitHub, Jira, Confluence, BitBucket.	

EXPERIENCE

Software Engineer Intern

Loop Health

Javascript, Node.js, React.js, Typescript, GCP, AWS, PostgreSQL, Firebase, REST API, Python.

- Executed a large-scale data migration of 1M+ users from Firebase to PostgreSQL, ensuring data integrity and minimal downtime. Introduced Prisma ORM and dependency injection, leading to 35% improvement in User Registration speed.
- Developed frontend features using React.js and Next.js, integrating them with REST APIs for seamless data flow. Contributed to the in-house component library and integrated Mixpanel with the frontend for user behavior tracking and data analysis.
- Led design and development of a Notification System for the HR Dashboard serving 1000+ client companies, building **REST APIs** in **Typescript** to **integrate SendGrid APIs** for email notifications. Leveraged **GCP Cloud Scheduler** for real-time dispatching, resulting in 60+ hours saved per quarter for Customer Success Managers.
- Migrated company secrets to GCP Secrets Manager, implementing integration via SDK and developing CRON jobs in a Node.js backend (TypeScript) for automated secret rotation. Authored a comprehensive security handbook.
- Performed Root Cause Analysis (RCA) for 50+ production-level bugs and high-severity issues, conducted performance testing using Artillery, identifying and optimizing bottlenecks in API response times. Integrated Freshdesk API for automated ticket creation, streamlining incident reporting and resolution workflows

Student Software Developer

University of Southern California Python, Flask, MongoDB, React.js, HTML, CSS, Next.js, SSO, Node.

- Working on integrating USC SSO authorizations and transitioning away from OAuth in Python-based Flask backend.
- Working on transition from cloud servers (AWS) to in-house hosted servers for USC's security compliance requirements. •
- Developed a more user-friendly UI in React JS for the application making the UI user friendly, resulting in a smoother experience.

PROJECTS

Adventure Trails | JavaScript, TailwindCSS, MongoDB, Express, Node, Python, TensorFlow [link] Apr 2023 - Jun 2023

- Designed and developed Adventure Trails, a full-stack web application where users can add & review scenic viewpoints. •
- Built the frontend using JavaScript and BootStrap, styled it with TailwindCSS for a responsive and intuitive UI.Developed a **RESTful API** with **Express.js** and **Node.js**, utilizing **MongoDB** for scalable data storage and retrieval.
- Constructed a bi-directional LSTM-based Deep Learning model in Python with TensorFlow to detect toxic reviews and seamlessly integrated it into the platform. Implemented user authentication with OAuth2 and JWT-based authorization

Mumble | React.js, WebSockets, Docker, Agora RTC SDK, Agora RTM SDK, Node, JavaScript [link] Jan 2023 - Mar 2023

- Developed a real-time video conferencing and chat application leveraging Agora RTC & RTM SDKs, providing seamless live video, audio, and text messaging for users.
- Implemented a scalable architecture using Node.js and React.js, integrating WebSockets for instant communication • and real-time updates, ensuring a low-latency user experience.
- Containerized the application using Docker, enabling efficient deployment and scalability, ensuring smooth operation across different environments.

NexaBrand | Python, Flask, AWS Lambda, Next.js, Tailwind CSS, OpenAI API [link] Mar 2024 - Jul 2024

- Developed a full-stack AI-powered SaaS application using Flask, Next.js, and AWS Lambda, enabling automated branding snippet and keyword generation.
- Implemented a scalable, serverless architecture with AWS (Lambda, API Gateway, CDK), optimizing performance and reducing infrastructure costs.
- Built an intuitive, responsive frontend with React, Next.js, and TailwindCSS, enhancing user experience and ensuring seamless AI-driven branding assistance.

Dec 2024 - Present Los Angeles, CA

Los Angeles, CA Sep 2024 - May 2026

Pune, India Aug 2020 - May 2024

Jul 2023 - Jun 2024 Pune, India