

Mohit Kambli

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EDUCATION

Syracuse University

Master's Degree - Computer Science

Syracuse, New York

August 2022 – May 2024

Vidyalankar Institute of Technology

Bachelor's Degree - Computer Engineering

Mumbai, Maharashtra

July 2016 – May 2020

EXPERIENCE

Software Development Engineer - Research Intern

Syracuse University

May 2024 – Present

Syracuse, New York

- Developed a full-stack application using ReactJS, Flask, and Python, achieving a 30% boost in performance by leveraging Aiven-hosted PostgreSQL for scalable data storage with psycopg2, and enhancing load times with Redis for image caching
- Optimized processing efficiency with AWS Lambda for serverless image handling and Amazon S3 for scalable storage, reducing processing time by 25% and improving system scalability
- Improved reliability and response times by implementing Netlify for frontend hosting, Vercel for backend hosting, and automated CI/CD pipelines, reducing deployment downtime by 40% and ensuring a seamless user experience

Software Engineer

Vistaar Technologies

July 2020 – August 2022

Mumbai, Maharashtra

- Crafted diverse solutions in Java, JavaScript, Shell, and Perl to address intricate customer-reported issues and migration, harnessed IAM, EC2 and RDS for scalable infrastructure, reducing resolution time by 30%
- Utilized Spring Framework for code fixes and enhancements across microservices architecture, leveraged Kibana and CloudWatch for log monitoring, leading to 20% increase in customer satisfaction
- Coordinated with teams to refactor code, ensuring 100% adherence to coding standards and improving maintainability by 25%, in addition, leveraged SQS for efficient message queuing and Glue for automated data integration workflows

PROJECTS

DocuQuery

November 2024 – January 2025

- Innovated RAG based document retrieval system using LangChain, Ollama and ChromaDB, enabling semantic search on PDFs by leveraging FastEmbed embeddings and PostgreSQL backed vector storage, improving query accuracy by 40%
- Boosted text chunking with RecursiveCharacterTextSplitter and deployed scalable retrieval pipelines using AWS Lambda, FastEmbed and Docker, reducing document indexing time by 30%

Shrinkify

September 2023 – December 2023

- Engineered and deployed Golang backend anchored on Vercel, supported by PostgreSQL and Redis, achieving 40% reduction in API response times, reducing database dependency by 50%, ensuring high availability & fault tolerance across the system
- Streamlined deployment pipelines with automated CI/CD workflows on Vercel and Docker, achieving 100% uptime during updates and reducing deployment cycles by 30%, while integrating Next.js - TypeScript frontend for seamless user experience

ColorJam

June 2023 – August 2023

- Constructed web application to extract dominant image colors using Python & K-Means clustering, launched on PythonAnywhere, achieving a 20% boost in UX through responsive design and performance
- Integrated AWS Lambda & S3 for serverless image processing and MongoDB Atlas for NoSQL data management

CuseConnect

November 2023 – December 2023

- Devised android application to streamline student grievance reporting with real-time updates via Cloud Firestore, reducing response time by 30% and improving student satisfaction
- Implemented event and dining discovery features, amalgamated Ticketmaster API for ticket purchases and Yelp API for restaurant listings with Firebase for user preferences, boosting student engagement and app usage by 25%

TECHNICAL SKILLS

Languages : Java, Python, TypeScript, JavaScript, C++, C#, Golang, Kotlin, Dart, SQL, Perl, Shell

Frameworks : ReactJS, React-Native, Flutter, Flask, Spring, SpringBoot, Hibernate, Node, jQuery, Next.js

Tools : IssueTracker, S3, EC2, Lambda, Firebase, Android Studio, GitHub, PowerShell, Kibana, SQS, Glue, Docker

Databases : MongoDB, OracleSQL, PostgreSQL, SQLite, Microsoft SQL, MySQL, DynamoDB, Amazon RDS, Redis

Certifications : Oracle Certified Associate Java Programmer (Java-8)

EXTRACURRICULAR

Augmented to open source projects, with 20+ Pull Requests merged, showcasing collaborative coding skills

Administered in Smart India Hackathon by creating voice prescription app for doctors & reduced errors by 20%