Mohit Kambli

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EDUCATION

Syracuse University — Syracuse, New York
Master of Science in Computer Science — *August 2022 – May 2024*

Vidyalankar Institute of Technology — Mumbai, Maharashtra
Bachelor of Engineering in Computer Engineering — *July 2016 – May 2020*

EXPERIENCE

Software Development Engineer - Research Intern — May 2024 – Present
Syracuse University — *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 Development Engineer - Research Intern — December 2022 – May 2023
Syracuse University — *Syracuse, New York*

- Engineered and deployed utilizing a Golang backend anchored on Vercel, backed by PostgreSQL and Redis, reducing API response times by 40% through efficient caching and optimized database queries
- Achieved 2x improvement in URL redirection speed by implementing Redis for caching frequently accessed URLs, reducing database dependency by 50% and ensuring high availability and fault tolerance across the system
- Streamlined deployment pipelines using automated CI/CD workflows on Vercel, enabling 100% uptime during updates and reducing deployment cycles by 30%, while integrating a Next.js and TypeScript frontend

Software Engineer — July 2020 – August 2022
Vistaar Technologies — *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 & SpringBoot 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

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%

TopicModelingForTweets — January 2023 – May 2023

- Conceptualized Python application leveraging AWS Lambda for serverless preprocessing of tweet data and implemented LDA, HDP, & NMF topic modeling using Gensim & Scikit-learn, improving topic coherence by 30% through Coherence Scores.
- Applied Matplotlib for real-time topic distribution visualization, combined with AWS S3 for scalable data storage, enhancing system scalability and shortening processing time by 20%

TECHNICAL SKILLS

Languages : Java, Python, JavaScript, TypeScript, C++, C#, Golang, Kotlin, Dart, SQL, Perl, Shell, C
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
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 15+ PRs merged, showcasing collaborative coding skills
Administered in Smart India Hackathon by creating voice prescription app for doctors & reduced errors by 20%