Mahesh Jamdade

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Education

University of Massachusetts, Dartmouth   North Dartmouth, MA
Master of Science in Computer Science 3.58/4.0 GPA   *Sep. 2022 – May 2024*
Swami Ramanand Teerth Marathwada University   Nanded, India
Bachelors in Computer Science and Engineering 3.4/4.0 GPA   *Jun. 2015 – Jul 2019*

Technical Skills

Languages: Typescript, Python, Java, JavaScript, HTML/CSS, Dart
Frameworks: React, NodeJS, NextJS, Jetpack Compose, Android, Spring Boot
Developer Tools: Git, Docker, Figma, AWS, Google Cloud
Database: PostgreSQL SQL, MongoDB, Firebase

Experience

CIS Graduate Research Assistant   Jan 2024 – July 2024
University of Massachusetts Dartmouth   *North Dartmouth, MA*
- Engaged in fine-tuning Large language models gemma-2b-it, to enhance secure code generation capabilities, significantly improving the precision and security of generated code.

Software Engineer Intern   Sept 2023 – Dec 2023
Building Assure PBC   *Boston, MA*
- Engineered a robust REST API using Node.js, achieving a 20% reduction in response times and increased scalability.
- Built a web app using React, PostgreSQL, and Docker for utility bill management, resulting in a 30% reduction in processing time and a 20% increase in user productivity.
- Implemented offline access and data sync functionality, resulting in a 40% decrease in data loss incidents during connectivity issues and a 25% increase in user engagement metrics.

Open Source Engineer   Jun. 2021 – Aug 2022
Codemagic   *Tartu, Estonia (Remote)*
- Collaborated with the Flutter team to prioritize and resolve critical issues, enriching framework stability and UX.
- Validated, labeled, and categorized a weekly influx of 400 bugs, ensuring efficient issue resolution.
- Created reproducible code samples, contributed PRs, identified regressions, enhancing overall Framework quality.

Associate Software Engineer   Aug 2020 – Jun 2021
Codemonk   *Bangalore, India*
- Led the development of a high-impact enterprise mobile app, which caters to over 10,000 daily active users.
- Contributed to a 30% year-over-year revenue growth through the successful deployment of mobile applications.
- Crafted microservices fostering loose coupling, autonomous deployment, and improving system scalability by 20%.

Mobile Developer   Jul 2019 – Aug 2020
Altorum Leren Private Ltd   *Bangalore, India*
- Shipped an organic food delivery app to Playstore and Appstore, with over 5,000 daily active users.
- Implemented custom real-time data synchronization with an online data store in a Fleet management App, achieving a 40% reduction in data retrieval latency, and Contributed to developing REST APIs using Node.js
- Assisted in developing automation tools that boosted developer productivity by more than 20%.

Android Developer Intern   Jun 2018 – Aug 2018
Hands in Technology   *Mumbai, India*
- Created an e-commerce Android app using Native Android and Java with MVVM design pattern.

Publications

M. Jamdade and Y. Liu, "A Pilot Study on Secure Code Generation with ChatGPT for Web Applications", in Proceedings of ACM Southeast Conference (ACMSE 2024), April, 2024, Marietta, GA, USA. DOI: 0.1145/3603287.3651194.

Projects

Pastelog: Logs Sharing tool | *NextJs, Typescript, TailwindCSS, Firestore, Firebase Functions*
- Created a Notes sharing web application Pastelog with a custom built notes editor and standard Keyboard Shortcuts that allows sharing rich content notes/logs across the web seamlessly powered by Gemini API.

Github Freak: Tool to analyze github contributions | *React, Typescript, TailwindCSS, Github API*
- Created a Web application Github Freak to visualize a Github user's Contributions, The tool also allows exporting users last 5 year contribution chart as an image.

Vocabhub | *Flutter, Firebase, Supabase*
- Conceptualized and launched Vocabhub, an innovative crowdsourced Vocabulary app, serving a user base of 100+ active users, transforming language learning by expanding their vocabulary and enhancing language skills.