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*

EXPERIENCE

CIS Graduate Research Assistant   Jan 2024 – Present
University of Massachusetts Dartmouth   *North Dartmouth, MA*
- Engaged in fine-tuning Large language models, including Gemma2, 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 2000 critical issues in Google OSS, enriching framework stability and user experience.
- Validated, labeled, and categorized a weekly influx of 400 bugs, ensuring efficient issue resolution.
- Created reproducible code samples, contributed pull requests, and identified regressions, enhancing overall software 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, garnering over 500 daily active users.
- Collaborated with the backend team to develop REST APIs using Node.js, leading to a 10% improvement in API response time
- Implemented custom real-time data synchronization with an online data store, achieving a 40% reduction in data retrieval latency.
- 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.

TECHNICAL SKILLS

Languages: Typescript, Python, C/C++, JavaScript, HTML/CSS, Dart, Java
Frameworks: React, Node.js, NextJs, Jetpack Compose, Android, SwiftUI
Developer Tools: Git, Docker, Figma, AWS
Database: MongoDB, PostgreSQL SQL, Firebase

Projects

Pastelog: Logs Sharing tool | *NextJs, Typescript, TailwindCSS, Firestore, Firebase Functions*

- Created a Simple to use Notes sharing web application Pastelog that allows sharing rich content notes/logs across the web seamlessly powered by Gemini API.

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.

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.