Rishab Maheshwari

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WORK EXPERIENCE

Frontend Developer, Antithesis – https://antithesis.com/   Dec 2023 – Present
- Working on making a brand new website with 10+ pages using vanilla CSS, HTML, Figma, and 11ty.
- Learned and used Docusaurus to rewrite internal and external docs. Configured Docusaurus with NixOS.
- Upgraded ESbuild and wrote scripts to automate css module file generation.
- Worked on internal notebook bugs, dashboards, and fixed bugs on the website.
- Learned and used technologies like ESbuild, Mercurial, Docusaurus, Preact, and NixOS.

Lead Developer, ProsperOn – https://www.prosperon.io/   June 2023 – Present
- Pioneered the development and management of ProsperOn's flagship FinEd application and led end-to-end product lifecycle from conceptualization, requirement definition, to development, testing, launch, & maintenance.
- Engineered a comprehensive web interface comprising over 40 pages utilizing the **MERN** stack, delivering a dynamic platform for 500+ students. Used **Railway** and **Caddyfile** to launch the platform.
- Prioritized and assigned tickets, conducted thorough code reviews, and optimized team workflows, achieving efficient development cycles and high-quality codebase.
- Demonstrated remarkable versatility, seamlessly transitioning between roles as a developer, product manager, and development manager, showcasing a holistic approach to project leadership.

Mobile Developer, UMass Lowell   June 2023 - Sept 2023
- Responsible for designing, developing, and maintaining the mobile app using React Native.
- Worked on offline capabilities, interaction with chatbots like ChatGPT, and more.

Lead Frontend Developer / Co-founder / CTO, AudioShelf – getaudioshelf.com   Feb 2022 – Feb 2023
- Designed and developed AudioShelf's flagship cross platform mobile app using **React Native**, **TypeScript**, NodeJS, which enabled access to 75+ audiobooks each with 30+ languages to over 2K customers.
- Responsible for launching the app on Play Store, and the App Store and also built a CMS website for handling vast amounts of user, and mobile app data using **Vue**, **React**, and Chakra UI.
- Introduced analytics through **Google Analytics** and **Crashlytics**, which empowered data-driven decision-making and better user experiences, & also automated image processing and data management using Python scripts.
- Employed **GCP** to craft a scalable, secure, and confidential backend architecture, leveraging microservices and OAuth2 for heightened data assurance. Built custom analytics systems using **Sockets** for complete control of data.

App Developer Intern, Advisor 360 – https://www.advisor360.com/   May 2022 – Dec 2022
- Advisor360 is a SaaS platform for digital wealth management serving over 200K financial advisors.
- Maintained 4 Android and iOS mobile apps using **Kotlin** and **Swift**. Worked on 30+ enhancements and fixes.
- Used **MVC architecture** to make new features, fix bugs in Android and iOS apps.
- Designed a firebase dashboard on **user activity metrics** such as average engagement time per session, retention rate, most features used, crash count among others using Firebase events
- Set up **CI/CD pipelines** using **Docker** for automated test builds for the Android app.
- Proficient with tools like XCode, Android Studio, Jira, TestRail, BitBucket, and Crashlytics.

Front-End Developer Co-op, Retail Business Services   Jan 2021 – June 2021
- Retail Business Services provides expertise, insights, and analytics to leading grocery brands.
- Developed and maintained 2 mobile apps using **React Native** and worked on multiple features like push notifications, **pub/sub** messaging via **Sockers**, error modal, and bug fixes.
- Implemented **Microsoft Analytics** to collect crash reports, API trigger events, and error events.
- Experience working in a team of 9 using Agile methodology.

TECHNICAL SKILLS
- Languages: Python, JavaScript, TypeScript, Swift, Kotlin, SQL, Python, HTML5, Java, C++, C
- AI & LLMs: ChatGPT, Bing AI, Bard, Github Copilot, Sentence embeddings, prompt engineering
- Cloud & Mobile Platforms: AWS, Google Cloud Platform (GCP), iOS, Android
- Tools and frameworks: React, React Native, XCode, Android Studio, Firebase, Google Analytics, Jenkins, Docker, Jira, Confluence, BitBucket, Git, Testrail, MongoDB,, Microsoft Analytics, Sockets, Swagger

- **University of Massachusetts Amherst** | Masters of Science in Computer Science   Graduated on **May 2023**
- **University of Massachusetts Amherst** | Bachelor of Science in Computer Science   Graduated on **Jan 2022**

Relevant courses: Advanced Human Computer Interaction, AI & Machine Learning, Data Science, Project Management

PROJECTS

PaperPal – Research Paper recommendation system – Youtube link   Spring 2023
- Built a **website** and **Google extension** to add research papers via links, and recommend papers using React
- Used **sentence embeddings** to recommend papers based on Authors, Keywords, and Abstract

TestTitan – LLM based test case generation and prompt engineering   Spring 2023
- Engineered prompts for generating optimal test cases in Python using LLMs like **ChatGPT**, BingAI, and Bard
- Achieved **50% efficiency** in generating test cases using LLMs through improved prompts

BrainWave – Independent Study for Alzheimer's Disease   Spring 2023
- Developed an **iOS app** using **Swift** to collect patient touch data for diagnosis via **Apple Pencil**
- Connected the app to **Google Drive** to seamlessly upload data to the cloud and integrate with diagnostic models
- Expertise using advanced **prompt engineering** using **ChatGPT** for development

GreenPay – Hack UMass – Youtube Link   Fall 2022
- Made a **sustainability based application** to reward customers for making sustainable choices.
- Used AWS for **lambda functions**, OCR, and APIs to scan grocery receipts and developed app using React Native

HONORS AND ACHIEVEMENTS
- Co-founded AudioShelf, a mobile app for multilingual audiobooks.
  Published the mobile app on Play Store and App Store and onboarded 2K customers within a year.
  Received an evaluation of 5M USD
- Was placed on the Dean's list 3 times at UMass Amherst.

ADDITIONAL COURSES

ChatGPT Prompt Engineering for Developers by Andrew Ng   Summer 2023
- Learned about best practices for getting precise responses from LLMs.
- Learned tips and tricks to get sentiments, summaries, inferences and more from ChatGPT which can be used to build applications.

.NET Fundamental Concepts   Summer 2023
- Learned multiple fundamental concepts about .NET and C#