SAMIRASIMHA RAJASIMHA

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EDUCATION

Purdue University
Master of Science, Computer Science

August 2022 – May 2024
Fort Wayne, Indiana, USA

Visvesvaraya Technological University
Bachelor of Engineering, Computer Science

August 2014 – May 2018
Bengaluru, Karnataka, India

EXPERIENCE

Gravity iLabs
Software Engineer – Full Stack

January 2019 – July 2022
Bengaluru, Karnataka, India

- Refactored module-level code into Micro Services with a plug-in approach using .NET Core cutting future development time by 50% which further reduced legacy REST API response times by 80%
- Developed a role-based access management to improve user control and configurability while enhancing development efficiency by 80%
- Componentized UI elements in Angular JS leading to a 30% reduction in feature development time and a 40% decrease in QA Testing Times
- Mentored 3 interns facilitating their immersion into the source code and technology stack fostering a collaborative environment and aiding in their professional growth

Infosys Ltd
Systems Engineer

August 2018 – December 2018
Mysuru, Karnataka, India

- Enhanced client transaction handling by developing a full-stack financial analysis tool using GoLang and Angular improving transaction efficiency by 40% and decreasing client transaction times by 30%
- Developed a secure high-performance RESTful API in GoLang implementing OAuth2 and JSON Web Tokens (JWT). This security upgrade reduced the risk of data breaches by 50% protecting against potential financial liabilities
- Facilitated a 15% reduction in operational costs by optimizing resource allocation and process efficiency directly benefiting the company's bottom line

Gravity iLabs
Software Development Intern

July 2017 – August 2017
Bengaluru, Karnataka, India

- Engineered a full-stack application to automate the analysis and management of Portfolio Budget Statements (PBS) using .NET Core for backend services and Angular for the frontend.
- Implemented automated email communications using .NET Core's SMTP capabilities to query stakeholders for updates on deliverables improving response rates by 30%
- Integrated Microsoft Cognitive Services for sentiment analysis to evaluate the tone of responses achieving over 95% accuracy in classifying sentiments as positive negative or neutral.
- Developed a responsive dashboard in Angular that displayed real-time sentiment analysis results and project deliverable statuses enhancing decision-making with up-to-date visual data.

PROJECTS

Special Events – Calendar Generation
Course Project, Purdue University

December 2023 – February 2024
Indiana, USA

- Developed a full stack application using Django and Vue.js to generate iCal file from an excel file of Events
- Implemented a JSON-based metadata system to enhance scalability and maintainability enabling swift adaptation to evolving Excel structures or deployment across varied organizational contexts

Note Nirvana (Web App for Guitar Chords)
Course Project, Purdue University

August 2023 – December 2023
Indiana, USA

- Created a music tablature tool with React and Node.js to replace an existing tool enhancing user experience with features like auto-scroll and chord simplification and Transposition that increased user satisfaction by 60%
- Implemented secure metadata storage contributed to frontend and backend and collaborated within a team

Furniture App Based on Augmented Reality
Course Project, Visvesvaraya Technological University

January 2018 – October 2018
Bengaluru, Karnataka, India

- Authored 'AR Furniture App' article presented at the 2018 ICACCI IEEE Bengaluru detailing augmented reality-based Android app development
- The app utilized the Kudan SDK to integrate AR content onto natural features detected from the surroundings

SKILLS

- **Language:** C# HTML/CSS JavaScript Python SQL GoLang
- **Technologies and Frameworks:** Django .NET Framework .NET Core Node.js ExpressJS AngularJS ReactJS Entity Framework
- **Database Technologies and Tools:** RDBMS NoSql MySql SQL Server MongoDB Supabase

- **Others:** Asynchronous Programming Azure Bootstrap CI/CD Microservices MVC REST APIs SMTP Email Integration Microsoft Cognitive Services