

SAMIRASIMHA RAJASIMHA

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EDUCATION

Purdue University | MS, Computer Science

May 2024

Visvesvaraya Technological University | BE, Computer Science

May 2018

EXPERIENCE

Gravity iLabs

January 2019 – July 2022

Software Engineer – Full Stack

Bengaluru, Karnataka, India

- Refactored module-level code into Micro Services using .NET Core. This reduced development time by 50% and API response times by 80%
- Developed role-based access management, which improved user control and reduced development times by 80%
- Componentized UI elements in AngularJS, which reduced feature development time by 30% and QA testing times by 40%, while enhancing reusability
- Mentored 3 interns, which aided their professional growth and fostered a collaborative environment
- Integrated SAML Single Sign-On with Azure AD, ADFS, and Shibboleth, which enhanced secure login and increased productivity across the organization
- Implemented Azure CI/CD pipeline, which increased the speed of the release process by 50% and enhanced deployment reliability
- Developed a caching mechanism using Azure Functions and Redis Cache, which reduced database load and improved application performance by 40%

Infosys Ltd

August 2018 – December 2018

Systems Engineer

Mysuru, Karnataka, India

- Developed a full-stack financial analysis tool using GoLang and Angular, which improved transaction efficiency by 40% and reduced client transaction times by 30%
- Created a secure RESTful API in GoLang with OAuth2 and JWT, which cut data breach risks by 50%
- Optimized resource allocation, which reduced operational costs by 15%

Gravity iLabs

July 2017 – August 2017

Software Development Intern

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

December 2023 – February 2024

Course Project, Purdue University

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)

August 2023 – December 2023

Course Project, Purdue University

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, increasing user satisfaction by 60%
- Implemented secure metadata storage, contributed to frontend and backend, and collaborated within a team

Furniture App Based on Augmented Reality

January 2018 – October 2018

Course Project, Visvesvaraya Technological University

Bengaluru, Karnataka, India

- Developed an AR-based Android app using C# and the Kudan SDK for furniture stores, presented at the 2018 ICACCI IEEE Bengaluru

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, PostgreSQL, Redis Cache
- **Others:** Asynchronous Programming, Azure, Bootstrap, CI/CD, Microservices, MVC, REST APIs, SMTP Email Integration, Microsoft Cognitive Services, Power BI, SAML Single Sign-On