SAMIRASIMHA RAJASIMHA

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**EDUCATION**

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| **Purdue University** | ***August 2022 – May 2024*** |
| *Master of Science, Computer Science* | *Fort Wayne, Indiana, USA* |

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| **Visvesvaraya Technological University** | ***August 2014 – May 2018*** |
| *Bachelor of Engineering, Computer Science* | *Bengaluru, Karnataka, India* |

**EXPERIENCE**

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| **Gravity iLabs** | ***January 2019 – July 2022*** |
| *Software Engineer – Full Stack* | *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

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| **Infosys Ltd** | ***August 2018 – December 2018*** |
| *Systems Engineer* | *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

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| **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**

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| **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

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| **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 that increased user satisfaction by 60%
* Implemented secure metadata storage contributed to frontend and backend and collaborated within a team

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| **Furniture App Based on Augmented Reality** | ***January 2018 – October 2018*** |
| *Course Project, Visvesvaraya Technological University* | *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