SAMIRASIMHA RAJASIMHA

(260)-905-9637 | samirasimha.r@gmail.com | [linkedin.com/in/samirasimha](http://linkedin.com/in/samirasimha) | [github.com/Samirasimha](http://github.com/Samirasimha)

**EDUCATION**

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| **Purdue University** | *MS, Computer Science* | **May 2024** |

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| **Visvesvaraya Technological University**  | *BE, Computer Science* | **May 2018** |

**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 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%

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| **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%

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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, increasing 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* |

* 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