PHANENDRA SAI SREE VINAY ALAPAKA
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EDUCATION

- **Master's in Computer Science** **January 2023 – April 2024**
  University of Alabama at Birmingham | Birmingham, United States **GPA 4/4**
- **Bachelor's in Computer Science and Engineering** **August 2015 – May 2019**
  Pondicherry Engineering College | Puducherry, India **GPA 8.3/10**

TECHNICAL SKILLS

- **Programming Languages**: C, C#, Java, Python, HTML5, CSS, JavaScript, TypeScript, JSON
- **Frameworks & Technologies**: .NET (WinForms, WPF with MVVM, ASP.NET MVC Core), Entity Framework, ADO.NET, Angular, React, Node.js, Razor, Bootstrap v5, Dependency Injection, Swagger, SSIS, SSRS, PowerShell, Visual Studio Extensibility, Spring Boot, Agile/Scrum, CI/CD
- **Databases & Machine Learning**: SQL, PL/SQL, Microsoft SQL Server, MongoDB, PostgreSQL, Scikit-learn, Pandas
- **Cloud Platforms**: Azure, AWS (S3, Lambda, EC2, RDS), GCP
- **Tools & Version Control**: Jenkins, JIRA, TortoiseSVN, Git, Bitbucket, Postman, Visual Studio, IntelliJ, Harness, OpenShift
- **Certifications**: Microsoft Certified: Azure Fundamentals

PROFESSIONAL EXPERIENCE

Student Assistant, REGARDS Study, UAB, Birmingham, Alabama **August 2023 – April 2024**

- Developed a patient records management system in ASP.NET Core Web App, enhancing data accuracy and reliability by 30% through real-time updates based on patient profiles, medical histories, survey responses, and real-time health monitoring data.
- Designed reusable UI components (Partial Views, Layouts, Razor CRUD), reducing development time by 30% and improving platform-wide UI consistency.
- Architected Data Access Layers using ADO.NET and Entity Framework, reducing data retrieval times by 35%. Managed backend services (RESTful, SOAP, WCF and Web APIs), boosting data exchange efficiency by 30%.

Software Engineer – UNISYS India Pvt Ltd., India **April 2021 – December 2022**

- Constructed Web APIs with ASP.NET Core 6.0 for a banking alert system, processing over 1 million alerts daily via OpenShift, ensuring seamless customer notifications.
- Optimized Microsoft SQL Server with efficient Data Access Layers (ADO.NET, Entity Framework), reducing query times by 40% for better database performance.
- Engineered React JS components (JSX, props, hooks), boosting user engagement by 30% and improving load times by 25% through an interactive user interface.
- Utilized Swagger and Postman for API documentation and testing, reducing API error rates by 20%.
- Enhanced a custom domain-driven microservices architecture by implementing CQRS and MediatR design patterns, resulting in a 30% improvement in system scalability and maintainability.
- Worked in Agile/Scrum using JIRA for project management and GitHub for code management. Implemented GitHub Actions and Harness in the CI/CD pipeline, boosting deployment efficiency by 35% on OpenShift.

Associate Software Engineer – UNISYS India Pvt Ltd., India **June 2019 – April 2021**

- Augmented MCP Project with Visual Studio extensibility features, improving user experience by 75%.
- Designed WPF, Custom Controls, User Controls and WinForms using MVVM patterns, boosting UI responsiveness by 30% and user satisfaction by 20%.
- Led the development and deployment of a custom debug engine integrated with the MCP Program, revolutionizing debugging capabilities for specialized languages such as Algol and Cobol files.
- Contributed significantly (50%) to the Azure Network Watcher research group for MCP, specializing in enhancing network health for MCP's IaaS products, including Virtual Machines, Servers, Virtual Networks, Application Gateways, and Load Balancers.
- Created continuous integration and delivery pipelines using Jenkins, reducing deployment time by 40% and increasing deployment frequency by 30%. Managed diverse Agile/Scrum assignments, resolved 200+ bugs, and employed Tortoise SVN for version control.

PROJECT WORK

Event Management App, Coursework Project, UAB **May 2023 – July 2023**

- Facilitated a web application for customers to explore event services based on selected locations and venues. Incorporated a messaging system enabling direct communication with service providers for instant quotes and personalized requests.
- Technologies: React, NodeJS, MongoDB

IPL Result Prediction, Inaugural Project, UNISYS **August 2019 – October 2019**

- Evaluated and predicted the winner of the upcoming tournament by examining past IPL results, utilizing statistical models and data-driven predictions.
- Technologies: Python, Flask, MySQL, Pandas, Scikit-learn, Git

Mining Human Activity Data to Provide Health Care Suggestions, PEC **January 2019 – April 2019**

- Exploited frequent pattern mining, cluster analysis, and prediction techniques to analyse daily routines using household electronic usage data. Achieved a 92% accuracy in providing health care suggestions through Recurrent Neural Network.
- Technologies: Python, Jupiter Labs, Pandas, Scikit-learn, Git