VATHASALYA PAKALAPATI

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EDUCATION

SYRACUSE UNIVERSITY | College of Engineering & Computer Science — Syracuse, New York
Master of Science – Computer Science and Information System — *May 2024*
Dean's Academic List: Recognized for outstanding academic achievement for Fall 2023 and Spring 2024 semesters
Scholarship Award: Awarded based on merit for the academic years 2022-2023 and 2023-2024
Course Work: Design Analysis and Algorithms, Data structures, Advanced Database Management Systems, Introduction to Machine Learning Algorithms, Social Media Data Mining, Data Analysis and Decision Testing, Computer Software Architecture Advanced Operating Systems

SKILLS

- **Programming Languages**: C, C++, C#, Java, Python, Go, JavaScript (ES6), PHP, SQL, PL/SQL, HTML, XML, CSS3, Bootstrap
- **Development Technologies**: Angular, React JS (React Hooks, State Management, memorization, Routing, Component Libraries), TypeScript, Java (Spring Framework, Spring Security, Hibernate), Angular, Vue.js, ASP.NET, Nodejs, Express.js, RESTful APIs, Web Services (REST, SOAP, WCF)
- **Databases:** Relational Databases (MySQL, SQL Server, PostgreSQL, Oracle, SQLite,), NoSQL Databases (MongoDB)
- **Additional:** Microsoft Azure, Google Cloud, Firebase, Oracle Integration Cloud, JIRA, Jenkins, Linux, Unix, Docker, Kubernetes, GraphQL, GitLab CI/CD, Junit, TestNG, Cucumber, Apache, Postman, Selenium, BrowserStack, Object Oriented Programming, Git, Maven, micro services, Ajax, jQuery
- **Soft Skills:** Problem-Solving, Creative thinking, Communication, Analytical, self-motivated, interpersonal Skills, Teamwork, Adaptive, multitasking

EXPERIENCE

SYRACUSE UNIVERSITY | College of Engineering & Computer Science — Syracuse, New York
Full Stack Developer — *May 2024 - Present*
- Collaborated with university staff and faculty to design and implement new features for the university's Blackboard Learning Management System (LMS) using Node.js and SQL server, significantly enhancing user experience, accessibility, and functionality, adhering to WCAG standards.
- Managed and updated content across the university's website using CMS, while ensuring optimal front end development with React, HTML5, CSS3, and JavaScript and back end with java (Spring Boot, Spring Framework, Spring Security, JPA, Microservices architecture, RESTful Web Services)
- Conducted extensive cross-browser testing and debugging using tools like BrowserStack and Selenium, ensuring compatibility across all major browsers and platforms, which resulted in a 30% reduction in user-reported issues

SYRACUSE UNIVERSITY | College of Engineering & Computer Science — Syracuse, New York
Graduate Teaching Assistant — *Aug 2023 – April 2024*
- Assisted in the instruction of courses, including Design and Analysis of Algorithms and Introduction to Machine Learning during the Fall 2023 and Spring 2024 semesters
- Established new grading standards and assessment materials, facilitating continuous improvement and efficient evaluation process that decreased grading time by 15 hours per semester while maintaining high standards of academic integrity and rigor
- Orchestrated review sessions and office hours, addressing student queries and providing additional explanations on course material

MAQ SOFTWARE — Hyderabad, India
Software Engineer — *Sep 2019 - June 2022*
- Participated in a dynamic hybrid team consisting of 9 members from Microsoft and MAQ, tasked with developing custom web application solutions using MVC architecture and Go programming language
- Leveraged Angular, Java, Spring Boot, .NET Core, SQL, and Microsoft Azure applying Agile, Scrum, continuous integration and Test-Driven Development (TDD) methodologies to streamline development
- Crafted numerous components in Angular and authored over 20 API services in Java Core, essential in fulfilling complex business requirements
- Established a scalable remote development and testing environment using Docker containers, bash scripting, and CI/CD pipelines with Jenkins, reducing setup times by 40% and ensuring consistent development environments across a globally distributed team
- Led the migration of the Leaderboard application to a Platform as a Service (PaaS) model, utilizing Azure SQL, Data Factory, Azure DevOps, and GitHub, enhancing system performance and scalability
- Delivered expertise in application deployment, performing continuous integration and deployment pipelines to different environments (dev, QA, prod), including unit tests, static and dynamic code analysis, UI and UX reviews, and security audits

TOSHIBA TRANSMISSION & DISTRIBUTION SYSTEMS — Hyderabad, India
Full Stack Developer Intern — *Dec 2018 – May 2019*
- Configured and optimized over 30 user-facing features using HTML, CSS, JavaScript, and Go, focusing on responsive design and reducing site loading time by 40%, also created and maintained more than 25 REST APIs with comprehensive Open API documentation
- Implemented CI/CD pipelines with Jenkins and automated deployment scripts, reducing deployment time by 5 hours and enhancing deployment reliability

PROJECTS

Dreamy Dough | [HTML, CSS, Java Script, React, Redux, Express.js, Firebase, Google Maps API, Responsive Design, Git, VS Code] | Demo | Code
- Developed an interactive platform for exploring, customizing, and ordering cakes suitable for diverse occasions. The website features a broad selection of cake options, enabling users to personalize their orders and efficiently place them for various events and celebrations

Explore Mate | [React, React.js, Java Script, HTML, CSS, Material-UI, Firebase, Google Maps API, Rapid API, Responsive Design, VS Code, Git] | Demo | Code
- Built a web application that leverages Google Maps API and Rapid API to deliver personalized recommendations for nearby restaurants, hotels, and attractions, based on user locations. The application features real-time data integration and user-friendly interfaces, enhancing the exploration experience

Brain Hemorrhage Detection | [Python, R, TensorFlow, Keras, Open CV, scikit-learn, Jupyter Notebook, Docker, AWS, Git] | Code
- Developed a comprehensive solution for detecting and classifying brain hemorrhages using advanced imaging techniques and machine learning algorithms. The system improves diagnostic accuracy and speed by analyzing medical images and providing real-time classification results

Netlytics | [HTML, CSS, Python, Stream lit, Pandas, NumPy, Matplotlib, Plotly, MySQL, VS Code, Git] | Demo | Code
- Created open-source dashboard using Stream lit to analyze and visualize Netflix user subscriptions, among different countries incorporating real-time filters and KPI metrics