Ajay Kumar Reddy Boreddy

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EDUCATION

University At Albany, Albany, NY   Aug 2022-May 2024
Master of Science in Computer Science   CGPA: 3.42/4.0

Karunya Institute of Technology & Sciences, TamilNadu, India   Aug 2015-Mar2019
Bachelor of Technology in Electronics Engineering, **Awarded as Best Student**   CGPA: 3.95/4.0

EXPERIENCE

New York State Office of Information Technology & Services   Jan 2024-Present
Full Stack Software Engineer   Albany, NY

- Designed and led full-stack development of robust, scalable enterprise web applications—such as the **Cannabis License** and **TPI Disclosure Applications**—using **ASP.NET Core, C#, Entity Framework Core, SQL Server** for backend, and **React.js** with **RESTful API** integration for responsive, high-performance frontends, incorporating advanced **LINQ** queries and async data handling for optimized server-side processing.
- Integrated unit testing frameworks like **NUnit** and Moq to support **TDD** and ensure code reliability, while automating **CI/CD pipelines** using **Azure DevOps** for efficient build and deployment processes and employing **Git**-based version control strategies to enable seamless collaboration and continuous integration.
- Applied secure coding practices in **.NET** and **react** to prevent **XSS, SQL injection**, and authentication flaws, while proactively addressing vulnerabilities using **OWASP** guidelines and static code analysis; collaborated with **DevOps,** QA, and product teams to optimize features, troubleshoot performance issues, and support scalable, cloud-based deployments through infrastructure automation.

CGI.   Mar 2020-May 2022
Software Engineer   Hyderabad, India

- Engineered and delivered a scalable **Mass Auto Insurance** Product for the state of Massachusetts, enabling end-to-end support for private and commercial auto insurance workflows including data collection, underwriting, billing, and claims processing using **.NET Core, ASP.NET MVC, React.js**, and **SQL Server**.
- Collaborated with cross-functional teams including Business Analysts and QA to gather requirements and implement robust modules leveraging **C#** and **.NET Core** for backend development, while building dynamic and responsive user interfaces using **React.js.**
- Led defect resolution efforts during **User Acceptance Testing (UAT),** implemented comprehensive unit testing strategies using **NUnit,** and optimized software delivery pipelines through continuous integration and deployment (**CI/CD**) using **Azure DevOps**.

CGI   Sep 2019-Mar 2020
Associate Software Engineer   Hyderabad, India

- Architected and developed a modern loan processing platform for **CORA** using **ASP.NET Core (C#)** for backend services, **React.js** for dynamic frontend interfaces, and **MongoDB** for scalable data modeling—streamlining workflows and reducing **manual errors by 80%.**
- **Leveraged AWS services (EC2, S3, RDS)** for secure, scalable deployment and implemented **CI/CD** pipelines via **GitHub Actions** and **AWS Code Deploy**, accelerating delivery cycles. Designed **RESTful APIs** and integrated **Redux-based state management** with real-time validation to enhance user experience and performance.
- Collaborated in an **Agile/Scrum team** with cross-functional stakeholders to ensure quality and security by applying **JWT/OAuth authentication**, conducting rigorous unit/integration testing **with xUnit, Moq, Jest,** and **Postman,** and following secure coding practices to protect financial data.

Stack NIIT   Jul 2019-Sep 2019
Software Development Engineer Intern   Bangalore, India

- Designed and developed a **full-stack CricAPI** web application using **ASP.NET Web Forms, C#,** and **SQL server** integrating **RESTful APIs** and **AJAX** for real-time data delivery and seamless asynchronous operations across the Client-server architecture.
- Built responsive, cross-browser front-end interfaces with **HTML5, CSS3, JavaScript, Bootstrap, jQuery,** and **JSON** to display live match statistics, improving user experience and performance through optimized rendering techniques and **SQL queries**.
- **Programmed and tested IoT sensor functionality** for live data simulation using **C#,** conducted unit testing with **NUnit,** and participated in **Agile ceremonies**. Utilized Git/GitHub for version control and Visual Studio for development and debugging.

TECHNICAL SKILLS

Languages: Java, C++, C#, Python, Golang, JavaScript
Frameworks/Platforms: Spring Boot, Angular, React, Flask, Django, NodeJS, SwiftUI, JUnit, REST, Kafka, Linux, Mockito
Web Technologies: XML, CSS3, HTML5, JQuery, MVC, Bootstrap, RESTful, AJAX, JSON
Tools/Databases: Git,Docer, Jenkins, MySQL, Redis, MongoDB, Dynamo DB, CI/CD, GraphQL,RabbitMQ,

PROJECTS

AI-Powered Creative Assistive Platform - NET Core | React.js | Java | SQL Server | AI/ML |
- Designed and developed an AI-powered assistive platform using .NET Core, React.js, and Java to empower individuals with disabilities in creative expression across music, art, and writing, incorporating adaptive input methods such as eye-tracking, voice commands, and haptic feedback.
- Implemented AI algorithms in Java to translate alternative inputs into creative outputs (e.g., voice-to-music, eye-to-brushstroke), provide content suggestions, and deliver real-time feedback, enhancing user engagement and supporting creativity through personalized experiences.
- Integrated backend services and assistive devices for real-time data sync, user profile management, and accessibility settings, contributing to inclusive tech innovation by creating scalable, accessible, and user-centric full-stack applications.

AI-Powered Mock Interview - React.js | Firebase | AWS | Gemini AI | Clerk Auth | REST APIs CI/CD
- Developed a full-stack AI-powered mock interview platform using React.js and Google Gemini AI, enabling real-time simulation of technical and behavioral interviews with dynamic question generation and intelligent feedback across job roles and difficulty levels.
- Built secure user authentication and personalized session management via Clerk, with customizable interview flows including MCQs, coding, and open-ended formats. Engineered responsive UI components using Shadcn UI and Tailwind CSS, ensuring cross-device compatibility.
- Implemented Firebase Firestore for user data storage, progress tracking, and analytics. Enabled downloadable PDF reports summarizing performance insights to support offline preparation and continuous improvement.
- Deployed with Netlify and integrated CI/CD pipelines, ensuring automated testing and seamless updates. Architected for scalability with future support for video interviews, voice commands, and ML-driven question adaptation.

HONORS & AWARDS

- Headed Centre for Social Action, a voluntary body with over 300 volunteers, and handled events with over 1000 people.
- Acted as the **President** of Karunya University Electronics Students Technical Club, leading a team of 240 members. write these points in professional resume of honors and awards.
- **Certificate of Academic Excellence** Awardee for the Academic years 2017-18, 2020-21.