Maheswar Gorantla

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Education

Indiana University, Bloomington   **August 2023 – May 2025**
Master of Science in Computer Science [GPA – 3.94/4.0]   *Bloomington, IN*
- Relevant Coursework: Applied Algorithms, Computer Vision, Software Engineering, Virtual Reality, Cloud Computing, Computer Networks, Information Visualization, Mobile Programming, Applied Machine Learning

Work Experience

Indiana University Bloomington   **August 2024 – May 2025**
Teaching Assistant - Software Engineering I   *Bloomington, IN*
- Mentored six student teams on enhancing the Angband game, guiding them through milestones such as configuration management, CI/CD, and containerization; facilitated 20+ client calls using agile methodologies, and provided feedback on code quality and debugging to improve project outcomes.
- Collaborated with faculty to design course content on software engineering principles, covering Git, testing, security, and distributed deployment, enhancing students' practical understanding and encouraging hands-on involvement in real-world system development.

University Information Technology Services (UITS), Indiana University (IU)   **May 2024 – July 2024**
CMS Developer Intern (Profile)   *Bloomington, IN*
- Built an IU-branded WordPress block theme using HTML, CSS, JavaScript, PHP, IU's Rivet Design System (Rivet 2), and WordPress, enhancing navigation features and improving user experience through responsive design and consistent UI across the platform.
- Ensured 100% compliance with WCAG 2.1 AA accessibility standards using Siteimprove and utilized MySQL to efficiently store and retrieve post-related data, optimizing content management workflows and ensuring seamless data handling for the EduBlog platform.
- Documented development processes, code structure, and user guidelines, streamlining onboarding for future developers and enabling efficient implementation of updates and enhancements.

SrasysInc   **January 2024 – May 2024**
Software Developer Intern   *Ellicot City, MD (Remote)*
- Developed Srasys Academy, a full-stack e-learning platform using React, Tailwind CSS, Node.js, Express.js, and PostgreSQL, achieving a 40% faster page load time and enabling a seamless experience for 500+ registered users.
- Integrated PayPal payment gateway, enabling secure and real-time course transactions; supported over 100 successful payments within the first month of launch with zero reported transaction failures.
- Built responsive and WCAG 2.1 AA-compliant front-end components with advanced course filtering and search functionalities, increasing user engagement time by 30% and improving course discovery rates.

SrasysInc   **January 2023 – July 2023**
Software Developer Intern   *Bangalore, India (Remote)*
- Developed the ME Registration Application, a cloud-based school management system using Angular, Node.js, and Firebase, streamlining enrolment, registration, and payment processes for Greystone House School, serving 300+ students and staff.
- Integrated a secure payment module with real-time tracking and reporting capabilities for infant, toddler, and primary programs, processing over 200 transactions monthly with 100% accuracy and enabling automated due reminders for parents.
- Architected a scalable Firebase database schema to support an initial 500 records with a projected 20% annual growth and implemented role-based access controls using Firebase Authentication for admin and management staff, ensuring secure, efficient data management and scalability for future parent-level access.

Projects

Rental Management System | *MERN Stack (GitHub)*   **Duration***: 3 months*
- Developed a full stack Rental & Services Management System using the MERN stack (MongoDB, Express.js, React, Node.js), implementing features such as user authentication, property search, and real-time messaging to enhance user experience.
- Designed responsive and WCAG-compliant frontend interfaces in React.js for renter, owner, and admin views and built backend services with Express.js and Node.js, integrating RESTful APIs and MongoDB for efficient storage and retrieval of user profiles, property listings, and reservations, supporting a scalable microservices architecture.
- Collaborated with a team of three using Agile methodologies and Git for version control, delivering features like payment integration (Stripe), maintenance ticket system, and admin dashboard for streamlined property management.

AI-Powered Meeting Assistant | *React, Node.js, Express, Deepgram, Facebook Bart (GitHub)*   **Duration***: 1 week*
- Developed a full-stack AI-powered meeting companion that captures, transcribes, summarizes, and analyzes both live and recorded meetings to enhance team productivity with actionable insights.
- Built a Chrome extension to capture meeting audio and stream it to a Node.js + Express backend via WebSockets; implemented real-time transcription with speaker diarization using the Deepgram API and used Facebook BART Model for summarization and emotion detection, with results displayed on a responsive React dashboard showing live transcripts, summaries, sentiment, and action items.

EcoLens | *React Native (GitHub)*   **Duration***: 1 month*
- Developed a React Native mobile app with barcode scanning to access sustainability data like environmental impact and ethical sourcing via the Open Food Facts API, enabling users to build eco-friendly wishlists, contribute reviews, and shop based on eco-scores.
- Designed responsive UI with React Native and integrated Firebase for user authentication, reviews, and personalized shopping lists, enhancing user interaction and data management for sustainable shopping.

Skills

Programming Languages: C, C++, Python, Java, C#, Data Structures | **Databases:** MySQL, MongoDB, PostgreSQL

Web Development: HTML, CSS, Bootstrap, JavaScript, TypeScript, Node.js, Expres.js, React.js, Angular, PHP, jQuery, RESTful API, npm

Machine Learning & AI Frameworks: TensorFlow, Pandas, Keras, NumPy, Image Pre-Processing, PyTorch, Sci-kit Learn

Cloud: Google Firebase, AWS Cloud practitioner, AWS Associate Developer | **App Development:** Android Studio, React Native, Flutter

Other Tools: Git, Docker, Unity, Eclipse IDE, Microsoft Excel, WordPress | **Java Frameworks:** Spring Boot, Maven, Hibernate

Publications

- AI-driven estimation of O6 methylguanine-DNA-methyltransferase (MGMT) promoter methylation in glioblastoma patients: a systematic review with bias analysis. (Link)
- Synthesis of Glioblastoma Segmentation Data Using Generative Adversarial Network. (Link)