ANJAN MANDAL

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EDUCATION

University of Louisiana at Monroe, Monroe, LA

Bachelor of Science in Computer Science   *Aug 2022 - May 2026*

GPA: 3.96

Coursework: Data Structure and Algorithm (Java), Discrete Mathematics, Concept of Programming Language, Ethical and Professional Issues in Computing, OOPS, Networks and Data Communications

SKILLS

Technical Skills: C/C++, Java, Python, HTML, CSS, JavaScript, TypeScript, Express.js, React.js, Node.js, MySQL, MongoDB, ASP.NET, VB.NET, C#, Git, .NET 8, Angular, Bootstrap, PHP, Laravel, GraphQL, Tailwind CSS

EXPERIENCE

SquarePlanIT, Monroe, LA

Software Engineering Intern   *Jul 2024 – Present*

- Diagnosed and resolved 40% of support tickets for 10 client systems by identifying root causes through various testing methods, including HTTP and browser tests, and implementing targeted fixes, leading to a 20% productivity boost.
- Engineered and implemented CI/CD pipelines using Jenkins, GitLab CI, and CircleCI, leading to a 30% boost in operational efficiency through streamlined code integration and automated deployment.
- Refactored and optimized legacy software built by a senior developer, employing ASP.NET and Laravel to achieve a 30% performance increase and enhance security compliance with current best practices.
- Enhanced website security by implementing custom authentication and authorization features using packages like Apache Shiro and Passport.js, avoiding pre-made security features.
- Boosted efficiency by 20% by transitioning from query-based development to ORM-based development for MySQL and MongoDB databases using Mongoose, Entity Framework, and Eloquent.

University of Louisiana at Monroe, Monroe, LA

Teaching Assistant and Emerging Scholar Program Recipient   *Feb 2024 – May 2024*

- Elevated student coding proficiency by 30% by conducting regular hard and medium LeetCode challenges in Java, Python, and JavaScript using object-oriented programming over one semester, resulting in a 40% improvement in grades.
- Selected for the competitive Emerging Scholar Program from a pool of 300 junior and senior students at ULM's Computer Science department and awarded a stipend for exemplary research contributions in artificial intelligence.

National Innovation Center, Kathmandu, Nepal

Software Engineering Intern   *May 2022 – Dec 2022*

- Improved overall security for multiple client software by 40% by implementing strong security packages for SPA such as Sanctum, fortify, OAuth, and secure session management with cookies and JWT.
- Enhanced system integrity by developing custom security features that detected and mitigated malicious activities such as form submission attacks, leading to significant prevention of unauthorized access and data breaches.
- Detected and eradicated a critical input validation flaw, reducing vulnerability to passive attacks by 80% and markedly reinforcing system resilience.
- Developed and deployed 10+ startup applications using React.js, Node.js, and Vue.js, boosting production capacity by 40% through faster development and improved code maintainability.

PROJECTS

Lost and Found Website

- Secured runner-up position out of 20 teams in the ULM Hackathon by building a scalable full stack Lost and Found platform using Node.js, React, Material UI, MongoDB, Socket.io, and Tailwind CSS, and presented it to an audience of 200.
- *Project Link*

Okay Journey

- Co-developed "Okay Journey," a mobile app and website for travel bookings and information, enhancing backend systems to improve transportation convenience in Nepal by 10% and ensuring real-time updates and price consistency.
- *Project Link*