

SAI KRISHNA BOLLINA

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SUMMARY

Dynamic software developer with over three years of experience in MERN stack development. Specializing in building scalable web applications, managing databases, and integrating AWS services. Experienced in mentoring and resolving technical challenges. Led a team of 8+ development interns to build and deploy 500+ CRUD operations, 30+ RESTful APIs, and optimized workflows.

EDUCATION

Master of Computer Software Engineering, University of Utah | Salt Lake City, UT May 2024
Bachelor of Technology in Mechanical Engineering, BML Munjal University | Haryana, India August 2020

EXPERIENCE

University of Utah

Teaching Assistant – Advanced Software Development

January 2023 – May 2023

- Supported students in mastering software development through mentorship, code review, and troubleshooting, leading to a 40% reduction in debugging time and grading assignments. Additionally, helped with advanced web development topics such as Serverless Computing, WebSockets, performance optimization and RESTful APIs.

Navars Edutech

Software Developer

April 2022 – July 2022

- Engineered client-side LMS to automate enrollment and administrative tasks using ReactJS, emphasizing code efficiency and scalable engineering practices, which reduced code redundancy by 30%.
- Spearheaded system design discussions and implemented agile methodologies, resulting in a 50% faster delivery of project milestones and improved alignment with customer requirements.
- Utilized a Test-Driven Development approach, increasing feature validation speed by 35% and reducing post-release bugs by 25%.
- Constructed bootstrap components, enhancing website load time by 20% and reducing Cumulative Layout Shift by 15%, contributing to a smoother user experience.
- Contributed to backend development using Express.js, Node.js, and RESTful APIs, adhering to Agile Methodologies.
- Integrated AWS DynamoDB for scalable database management and API Gateway for efficient API routing.

Deepthought EduTech Ventures

Software Development Fellow

Jan 2021 – March 2022

- Conceptualized and delivered a Learning Management System utilizing Node.js, Express, ReactJS, and MongoDB. This platform increased student engagement by 40% within the first three months.
- Resolved critical design and software issues, boosting usage metrics by 30%.
- Performed functional testing on Socratic Dialogue LMS, ensuring seamless user experience and system reliability.
- Collaborated with teams and leadership groups, delivering 5 major projects under senior mentors.
- Automated database operations, increasing operational efficiency by 20% through 20+ triggers and 10 procedures.
- Architected and maintained AWS infrastructure, leveraging EC2, S3, RDS, and Lambda functions, and incorporated large-scale transaction processing systems utilizing REST and Kinesis for streamlined operations.

TECHNICAL SKILLS

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|-------------------------------|--------------------------------------------------------------------------------|
| • Programming | : HTML, CSS, JavaScript, Java, Python, Typescript |
| • Frameworks/Libraries | : ReactJs, Spring Boot, Spring MVC, Node.js, Express.js, Redux, ThreeJs |
| • Databases | : MongoDB, MS SQL, PostgreSQL, MySql, DynamoDB |
| • Deployments | : Azure, AWS, CI/CD using Jenkins, GitHub, Docker |
| • Outros | : Git, Agile Methodology, PyDoc, Linux, Micro Services, Jira, Postman, Swagger |
| • Testing | : Junit, Mocha, Chai |

PROJECTS

Bootcamp Navigator

- Developed a robust MERN Stack application featuring CRUD operations for bootcamps, courses, reviews, and users, resulting in a 40% faster data retrieval and bootcamps management process.
- Created a responsive frontend using ReactJs, Redux Toolkit to ensure an intuitive user experience and documented the APIs using Swagger.
- Designed and implemented 48 CRUD operations using Express.js, MongoDB, and Mongoose, incorporating schema validation, aggregation pipelines, and indexing for performance boost.

CERTIFICATIONS

- Amazon Web Services Cloud Practitioner - AWS Global Infrastructure, IAM, DynamoDB, Lambda, SNS/SQS