



Devendar Sai Thallam

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WORK EXPERIENCE

Syracuse University

Syracuse, NY

Software Engineer Intern

Jan 2023 – Present

- Assisted the development team in designing and implementing new features for a web-based application.
- Conducted thorough testing and debugging to ensure software quality and reliability.
- Collaborated with senior developers to optimize code performance and enhance application functionality.
- Participated in daily stand-up meetings and provided regular progress updates to the team.

Syracuse University

Syracuse, NY

Graduate Teaching Assistant

Aug 2021 – Dec 2022

- Collaborated with Prof. Andrew Lee as a Teaching Assistant for graduate students' course "Cryptography" and helped them master advanced concepts and techniques.
- Assisted Prof. Andrew Lee in grading assignments, exams, and projects for the Cryptography course and provided feedback to students.
- Assisted Prof. Ehat Ercanli as a Teaching Assistant for graduate students' course "Database Management Systems" and improved their database design and implementation skills.
- Provided one-on-one tutoring, weekly helping sessions, and regular out-of-class assistance to over 50 students and increased their average grades by 15%.
- Organized and facilitated group discussions, workshops, and presentations for both courses to enhance students' learning outcomes.

Tata Consultancy Service Ltd.

India

Software Development Engineer

June 2018 – Jan 2021

- Involved in code development and testing phases of the Software Development Life Cycle.
- Involved in the design of application framework using J2EE technologies like JSF, Servlets, and JSP.
- Developed User Interface and its components using JSP, HTML5, JavaScript, jQuery, AJAX, and AngularJS to simplify the complexities of the application.
- Applied design patterns including MVC, Façade, Abstract Factory, DAO, and Singleton.
- Worked extensively on Spring IOC and dependency injection for managing application dependencies.
- Used Spring AOP to implement logging and getting data source objects as the advice that was woven in the bean classes.
- Developed REST-based Microservices using Spring Boot and Spring Data with JPA.
- Used JDBC to communicate with Oracle database.
- Extensively used Core Java concepts such as Multi-Threading, Exceptions, and Collections.
- Used SVN as a version control tool and achieved continuous integration with Jenkins.
- Developed APIs with Spring framework for the Cramer Inventory System by using Agile methodology and participated in scrum meetings.
- Implemented logging using Log4j and Worked on JIRA to keep track of issues.
- Developed Stored procedures and triggers using SQL to access the database.
- Used Building tools like Maven to build, package, test, and deploy applications in the application server.
- Used Junit to perform unit testing in the application.
- Fixed the bugs which are identified in the Test Phase.
- Delegated workload between team members and used spreadsheets to track project progress resulting in Best Team Award.
- Built Cramer inventory System using HTML, CSS, and Angular framework.
- Handled and maintained Akana API Management Platform servers, Database systems.
- Used Jenkins for Continuous Integration and Continuous Delivery (CICD) process and deployed the application.
- Upgraded Akana Platform to latest version increased API requests throughput by 8 times.
- Programmed Jenkins to deploy the API in JBoss and WildFly Server independently.

SKILLS

Programming Languages: Proficient in C++, Java, Spring, JavaScript (jQuery), Python, C, C++, SQL, Shell Scripting

Tools and Frameworks: Experienced with Git Hub, SVN, Maven, AngularJS, Eclipse, VScode; Knowledgeable of Spring Boot, DBMS, HTML/CSS.

Libraries & Frameworks: Expertise in OOP/OOD principles and design patterns.

Version Controls Quality Assurance: Worked with Git/Github and SVN; Familiar with CVS and Jenkins; Used cppCheck and Coverity for code analysis.

EDUCATION

Syracuse University

Syracuse, NY

Master of Science, Computer Science. 3.8 GPA

Jan 2021 – Dec 2022

Coursework: Design and Analysis of Algorithms, Object Oriented Programming in C++, Object Oriented Design, Operating Systems, Advanced Computer Architecture, Database Management Systems, Structural Programming and Formal Methods, Cryptography, Natural Language Processing, Block chain Applications

Sastra University

Tamil Nadu, India

Bachelor of Technology, Electronics and Communication Engineering. 8.2 GPA

July 2014 – May 2018

Coursework: Object Oriented Programming, Computer Networks

PROJECTS

Nachos Operating Systems Project

Feb 2022 – Apr 2022

- Developed and tested various system calls and synchronization primitives for nachos operating systems.
- Applied concepts of virtual memory, file systems, and network protocols to nachos operating systems.
- Gained hands-on experience with operating system design and implementation using Java and C++.
- Enhanced the performance and functionality of nachos operating systems, which are custom-based systems for educational purposes, by designing and implementing multi-threading and scheduling algorithms in C++.

Sentiment Analysis of COVID Data

Feb 2022 – Apr 2022

- Applied sentiment analysis techniques to COVID-19-related tweets and posts from Twitter and Facebook.
- Used machine learning algorithms to transform and categorize the data.
- Analyzed the data to identify trends, patterns, and sentiments of people.
- Presented the findings in a report with visualizations and recommendations.

Tracking Board for Agile Team

Feb 2021 – Apr 2021

- Designed and implemented an application that mimicked Agile Board functionality and allowed users to create, organize and update tasks for any project.
- Used AngularJS, Node.js, and MongoDB to build a full-stack web application with a modular MVC architecture and a secure database.
- Leveraged AngularJS's two-way data binding feature to ensure real-time synchronization between the view and the model layers of the application.
- Utilized AngularJS's built-in directives, services, filters, and animations to enhance the user experience and interactivity of the application.
- Tested and debugged the application using Karma, Jasmine, and Postman to ensure functionality and performance.

Designed Database for Bank company

Feb 2021 – Apr 2021

- Created 10 subject-based tables (entities) and added relations between them using SQL.
- Wrote 20 queries to manipulate data and generate reports for different business scenarios.
- Demonstrated understanding of database normalization and integrity constraints.
- Received positive feedback from professor and peers for database design and query performance

ACHIEVEMENTS

Awarded 10% Scholarship towards master's studies.

Jan 2021

Dean's list for being in top 2% of UG batch in terms of academic performance.

2015 and 2018