



MAHALAXMI KALAPPAREDDIGARI

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Education

University of Illinois at Chicago

August 2020 – May 2024

Bachelor of Science in Computer Science | GPA: 3.80 / 4.00

Chicago, IL

Relevant Coursework: Data Structures, Software Design, Computer Algorithms I, Data Science, Artificial Intelligence I, Discrete Mathematics, Machine Learning, Software Engineering

Experience

Motorola Solutions

June 2024 – Present

Software Engineer

Chicago, IL

- Optimized a cross-functional system for managing varied criminal records, supporting over 1,000 officers across states in public safety using C# and SQL Server
- Resolved critical system issues, improving performance by 30% and benefiting 500+ public safety users
- Delivered high-quality results, maintaining 95% satisfaction in public safety systems

Motorola Solutions

May 2023 – August 2023

Software Engineer Intern

Chicago, IL

- Implemented an Admin Configuration Backend to automate deployment, reducing company costs by 30% with C#
- Developed a standard backend model for configurations, improving data management efficiency with Azure App Config by 40%
- Created and validated two RESTful ASP.NET MVC Web APIs for configuration data, achieving a 95% API test success
- Conducted unit and integration testing of the backend and API controllers with xUnit and Moq, ensuring 90% code coverage

Expedia Group

May 2022 – July 2022

Software Development Engineer Intern

Denver, CO

- Reimplemented a legacy business dashboard in Escapia, improving accessibility and usability for property managers
- Developed a React UI with tile components, increasing task navigation efficiency by 30%
- Built a backend Node service with GraphQL, reducing data retrieval times by 20%
- Achieved 95% code coverage with unit tests, enhancing stability and improving the onboarding process

Optum

June 2021 – August 2021

Technology Development Intern

Schaumburg, IL

- Researched GraphQL and documented advantages over REST APIs
- Designed a method to parse and filter JSON prescription responses using TypeScript and Node.js, improving parsing efficiency by 20%
- Developed a mock GraphQL federated gateway for querying user data with JavaScript and Node.js, reducing query response times by 30%
- Studied NLP concepts to design a system suggesting alternatives for long-term out-of-stock medications

Projects

CTA Ridership Database Application | Python, SQL, SQLite, Matplotlib

September 2022

- Developed a console-based program to retrieve and display CTA ridership data
- Used SQLite and Matplotlib to query and visually represent CTA data based on user-selected commands
- Created UI command logic with Python to display queried and plotted data in an organized manner

Exercise Break App | JavaScript, React.js, Node.js, MySQL

January 2024 – April 2024

- Developed an interactive exercise application that tracks workouts with customizable settings with multiple team members and updates users on their session statistics
- Unique feature: Utilizes Google Maps API to find nearby stores based on exceeding defined threshold for heart rate

Technical Skills

Programming Languages: C/C++, C#, Python, GraphQL, JavaScript, Java, TypeScript, SQL

Technologies/Frameworks: VS Code, Git, Node.js, React.js, RESTful API, ASP.NET MVC API, .NET framework