Sisir Potluri

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Education

University of Michigan   **Ann Arbor, MI**

- Anticipated M.S. in Computer Science and Engineering (SUGS) | Expected Graduation: May 2024
- B.S. in Computer Science and Business | GPA: 3.99/4.0 | Relevant Courses: Data Structures and Algorithms (A+), Foundations of Computer Science (A+), Intro to Computer Organization (A)

Experience

Bloomberg L.P.   **New York, NY**
Software Engineer Intern   May 2022 – July 2022

- Led efforts to design, construct, and verify a message translator framework in Java that transforms transaction data to client formats; used Apache Camel, FreeMarker, Maven and Spring Boot
- Dockerized the solution as a microservice in a CI/CD pipeline to serve trading order systems (AIM and TOMS) and used it to revamp PORT's infrastructure with boosted scalability and efficiency

Amazon Web Services   **Seattle, WA**
Software Dev Engineer Intern   January 2022 – April 2022

- Founded a serverless infrastructure on AWS Cloud that manages prescheduled data transfers to support internal workflows; used AWS Lambda, CloudWatch Events, and AWS CDK in Typescript
- Architected 9 APIs using AWS SDK for Java with DynamoDB and leveraged API Gateway for routing and verification; included CloudWatch metrics, documentation, and integration testing
- Led product demos for engineers & leaders and participated in teamwide bug-bashes and Sprints

MathWorks Inc.   **Natick, MA**
Software Engineering Intern   May 2021 – August 2021

- Engineered tools and verification algorithms in JavaScript using the QUnit and FuncUnit frameworks to simulate user interaction with a JS-based web application product in a Scrum/Agile
- Architected a machine learning program to predict code failures for a company-wide build-and-qualification platform with the MATLAB classification toolkit, reducing FNR by 71%

Projects

minimol News (GitHub: github.com/sisirpotluri/minimol)   June 2022

- Constructed a React web application that accepts query input, retrieves 8 current news articles via RapidAPI, and dynamically renders summaries on the client-side in a clean, modern, and swift UI
- Used TensorFlow to do real-time sentiment analysis on articles via a CNN machine learning model

Book Catalog (GitHub: github.com/sisirpotluri/book-catalog)   May 2021

- Integrated abstract data types with optimized algorithms to implement a cross-functional library catalog for the command line in C++ that efficiently sorts and searches over 10,000 books
- Leveraged GoodReads data and machine learning to train a predictor model that synchronizes with user activity in 0.02 seconds and recommends books using hashmaps and priority queues

Skills

Technologies

- Languages: C++, Java, Python, TypeScript, Node.js, OCaml, Python, MATLAB, R, HTML
- Tools: React, AWS CDK, CloudFormation, DynamoDB, Apache Camel, Firebase, Kafka
- Distributed Systems, Web Applications, Cloud Infrastructure, Object-Oriented Programming

Engineering

- Excellent communication and collaboration skills to discuss and resolve precise technical details
- Independently making optimal web searches that encapsulate nuanced programming challenges