Anirudh Seela

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A self-motivated fast learner with a passion for technology pursuing a BS in Computer Science. Seeking a Software Engineering Internship position where I can utilize my strong problem-solving and analytical skills to make a meaningful contribution and further my learning.

Skills: Java, C, JavaScript, Python, C++, SQL, MySQL, Node.js, Spring, ReactJS, MongoDB, AWS, REST, Git, Linux, R, HTML, CSS
Awards & Honors: Dean's List, Chess Candidate Master, Team USA Chess Representative (2012– 2015), National Chess Champion
Certifications: Stanford University | Machine Learning Course, DeepLearning.Ai | Neural Networks & Deep Learning

Education

Purdue University - West Lafayette, Indiana **August 2019 – December 2022**
BS - Computer Science – Concentration: Software Engineering & Security | Minor – Business Economics | **GPA: 4.0/4.0**
Coursework: Software Engineering, Data Structures & Algorithms, Systems Programming, Computer Architecture, Object-Oriented Programming (Planned) Analysis of Algorithms, Operating Systems, Computer Networks, Information Systems, Software Testing, AI
Clubs & Activities: Database & Innovative Software for the Community (DISC), Data Mine Learning Community, ACM – SIGAI, Chess

Professional Experience

Tesla | Software Engineering Intern — May 2021 - December 2021

- Created microservices, APIs, & data pipelines with Java, Kafka, & GraphQL to drive actionable insights for customer use cases.
- Improved scalability and performance of the Kafka Connect Monitor by 300% by resolving significant concurrency issues.
- Constructed a Kibana alerting system and integrated a REST API to handle autonomous revitalization of failing data pipelines.

Purdue EPICS – DISC HOPE Team | Backend Lead Developer — January 2021 - May 2021

- Assisted the Lafayette Government and built a Django application that helps housing caseworkers effectively track and manage their homeless clients. Led backend software development and implemented robust info parsing and notification systems.
- Designed efficient data structures and queries to improve the performance of the app's data retrieval and update processes.
- Deployed the application using Amazon Web Services (AWS) Elastic Compute Cloud (EC2) & Apache.

Excelerate (previously Startup Bridge) | Software Engineering Intern — August 2018 - August 2018

- Refined the frontend of web pages and backend routines to improve the user experience of authentication processes.
- Engineered an algorithm that helped event organizers determine the number of startups and corporation invitees based on time constraints, with 99% confidence, using predictive analytics and simulations. Conducted data analysis using R & Python.

FalconX: Incubator and Accelerator | Software Engineering Intern — July 2018 - August 2018

- Developed and deployed web pages and their respective backend subroutines.
- Devised a cost-efficient conferencing system using Amazon Web Services (AWS) Alexa for Business (A4B).

Projects

Campus Reviews – React Native, JavaScript, Node.js, Firebase Mobile Application — January 2021 - May 2021

A Cross-Platform App enabling a centralized repository of credible information, feedback, and opinions about all things Purdue through a P2P campus network. The application aims to reduce students' learning curve associated with entering a new socio-cultural landscape.

- Implemented the full-stack CRUD functionality for posting, reviewing, and commenting systems using Object-Oriented Design.
- Designed a credibility metric to maintain info reliability based on communal approval and sentiment analysis to curb bias.
- Developed a roommate recommender employing a heuristic calculated from user inputs and prioritization to pertinent questions.
- Engineered a dining recommender engine for restaurants near campus using latent factor collaborative filtering.

HTTP Web Server – C++ Application — April 2021 - May 2021

Capable of handling HTTP requests & basic authentication and can operate iteratively or concurrently via processes or threads.

Shell Interpreter – C, C++, Lex, Yacc, Bash Application — February 2021 - March 2021

A shell interpreter combining behavior from common shells including bash and csh.

Audio/Video Censor App - Python Desktop Application — April 2020 - May 2020

Designed for content creators to audit their videos to catch inadvertent demonetizing behavior. The software identifies instances of profanity and their timestamps with ~91% accuracy & censor them with ~82% accuracy (enough to avoid demonetization).

- Built with FFmpeg and related libraries for A/V editing. Utilized Google Cloud Speech API to convert audio to text.