Arun Arjunakani

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Education

Purdue University | B.S. Computer Science — Dec 2021
- Concentration: Software Engineering
- Notable Coursework: Data Structures and Algorithms, Software Engineering

Skills

Java	C/C++	JavaScript	jQuery	ReactJS	AngularJS
Vue.js	Node.js	Scala	Python	R	Spark
Agile	Git	Linux	AWS	Bash	ELK

Experience

Capital One | Software Engineering Intern — Jun – Aug 2019
- Developed a library to asynchronously read logs from existing programs and label them before transferring them to Elasticsearch
- Designed library to run on a distributed Spark cluster
- Visualized hundreds of thousands of logs with Grafana and Kibana
- Participated in Capital One's CODERS outreach program and taught coding at local high schools
- Technologies: Scala, Python, Spark, ELK

Art of Problem Solving | Software Engineering Intern — May - Jul 2018
- Worked on frontend development for an online adaptive learning platform for young children in grades 2-5
- Modified a large codebase with hundreds of users
- Technologies: ReactJS, ES6, HTML Canvas, Circle CI

Projects

Small Fish (https://github.com/arunarjunakani/smallfish) — Aug 2020 - Present
- Built a chess web app with an elementary AI that can play at a beginner level
- Utilized a minimax algorithm with alpha-beta pruning for the AI's move generation
- Technologies: JavaScript

Riddle Solver (https://github.com/arunarjunakani/RiddleSolver) — Jun 2019
- Designed and implemented an algorithm to solve "Einstein's Riddle"
- Generalized the algorithm to allow the program to solve all types of grid puzzles
- Technologies: Java

Hive Text (https://github.com/babattles/HiveText) — May 2018
- Created a real-time collaborative text editor with online and offline functionality
- Implemented concurrency allowing teams of up 50 people to work on the same project
- Technologies: Electron, Firebase, Node.js, HTML+CSS

Arloper's Algorithm (https://github.com/arunarjunakani/ArloperAlgorithm) — Dec 2016
- Developed a heuristic algorithm to solve the Travelling Salesman Problem
- Designed a GUI to showcase the solution
- Technologies: Java, JavaFX