

Aruna Iyer

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Objective

Full-stack software engineer with background in statistics and data looking for developer role. Passionate about implementing efficient software design and excited to tackle challenging engineering problems.

Technical Skills

Languages: JavaScript, Java, Python, C, C++, R, SAS

Backend: REST APIs, Node, Express, noSQL, SQL, MongoDB, PostgreSQL, Cassandra

Frontend: JavaScript (ES5 and ES6+), React, Redux, HTML/CSS, Webpack

Other: Git, Docker, Mocha/Chai, Jest, AWS, EC2, Agile Development

Projects

[Audio Player Comments Section](#)

- Designed microservice architecture for the comments section of an audio player to implement CRUD routes via REST API using Express, Node, and MongoDB.
- Used React framework to build interactive UI using state management and styled elements with CSS modules.
- Containerized service with Docker and deployed on AWS EC2 instance.

[Radio DJ Playlist Builder](#)

- Built end-to-end app with React, MySQL, and Express.
- Integrated the last.fm API to obtain album and genre information about user-inputted songs.
- Used D3 to create charts displaying statistics on most popular artists.

[Hotel Reservation Comments Section](#)

- Designed backend architecture to optimize CRUD routes.
- Optimized PostgreSQL database with 60 million records to read and write under 5 milliseconds.

Previous Experience

Programming Specialist, Nuventra Pharma Sciences, May 2018 – August 2019

- Constructed and maintained databases of pharmacokinetic data for submission to the FDA using R.
- Designed pipeline code to automate normalization of delivered data against standard terminology.
- Interacted with clients in a customer-facing role to address data management needs.

Data Analytics Intern, MITRE Corp., May - July 2016

- Developed app in Cytoscape to visualize biological networks using Java programming.
- Visualizations used by universities developing self-assembling biological networks from papers using machine learning.

Education

Hack Reactor at Galvanize, Advanced Software Engineering Immersive, 2019

North Carolina State University, B.S. in Statistics, minor in Microbiology, August 2013 - May 2018

Relevant Computer Science coursework: Programming Concepts in Java I & II, C Programming, Data Structures, Data Science, Bioinformatics, Discrete Math, Assembly Programming