

Arvindkumar Thiagarajan

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Education

Northeastern University, Khoury College of Computer Sciences
Master of Science in Computer Science | GPA: 3.72

Boston, MA
Aug 2018 - Dec 2020

Ramaiah Institute of Technology

Bachelor of Engineering in Computer Science | GPA: 8.71

Bengaluru, KA, India
Aug 2013 - Aug 2017

Professional Experience

Fidelity Investments, Software Engineer Co-op

Jun 2019 to Dec 2019

- Designed and developed a web application using Angular to simulate Market Risk Impact of various market indices
- Provisioned a RESTful API using Spring Hibernate and a PostgreSQL database to be consumed by the application
- Worked on an internal API and wrote Java code to monitor API health, added endpoints, and performed unit testing
- Designed an admin console using Angular to publish custom index models, monitor data usage, and control accesses
- Played key role in automating deployment of API and UI code to EC2 instances and daily data flow from S3 to Redis

Leveraged knowledge in: Angular, Java, Spring Hibernate, PostgreSQL, Scala, AWS, Plotly, Bootstrap, Github, Jenkins, Redis

Wells Fargo, Application Programmer

Jul 2017 to Jul 2018

- Worked with team of 5 to build a web application using Java to process bank check images and auto-generate reports
- Saved over 2 man hours per day by proposing and developing "Adhoc service" with Java and JavaScript to streamline reprocessing and generation of failed check documents, also reducing time and effort needed to test app functionality
- Collaborated with various teams to support monthly releases, troubleshoot and fix real time issues with the application

Leveraged knowledge in: Java, JavaScript, MySQL, JSP, HTML, CSS, Bootstrap, GitHub

Wells Fargo, Software Developer Intern

Jan 2017 to Jun 2017

- Worked with team of 3 to build an MVC application using Java and the Alpha Vantage API to simulate stock trading
- Built UI for this app using JSP, HTML, CSS. Provisioned a SWING GUI to plot portfolio performances over time
- Indexed analyzed data into an Elasticsearch database with Logstash and visualized results in Kibana to derive insights

Leveraged knowledge in: Java, Spring Boot, Elasticsearch, HTML, CSS, JSP, Swing, GitHub, PuTTY

Software projects

MicroTix <http://www.arvindtix.xyz/>

GitHub: bit.ly/33pP6My

- Built, deployed, scaled a Microservices based ticketing application using Node, React, Docker, Kubernetes, MongoDB
- Wrote services with Node.js each connected to a MongoDB instance and hosted on a pod in a Kubernetes cluster
- Used NATS streaming server to publish and listen for service events and ingress nginx to provision a load balancer
- Used NextJS React framework to build the client. Wrote CI/CD workflows to automate testing and deployment

Utilized: Node.js, React, NATS, Skaffold, Ingress, DigitalOcean, MongoDB, Stripe.js, Docker, Kubernetes, Express, Jest

Recognize anything? <https://master.d18ewnc11uvlgk.amplifyapp.com/> **GitHub:** API: bit.ly/30sqTTT UI: bit.ly/3frvrXK

- Built an image recognition app using React to detect faces, demographics, items and patterns in user submitted images
- Developed RESTful API with Flask and OpenCV in Python to process images and generate response data for the app

Utilized: React, Flask, Python, OpenCV, ClarifAI API, Bootstrap, AWS Amplify, CSS, Bootstrap, Elastic Beanstalk

Carbon Footprint tracker <http://trackcarbon.online/>

GitHub: API: bit.ly/2D7G4ck UI: bit.ly/2PIMKWD

- Design, build, and deploy a web application using Angular, Node, and AWS to track the carbon emissions over a journey based on relevant factors while mapping out the journey over an interactive map
- Used Apache Kafka with Java to stream live tweets and relevant news onto Elasticsearch to be consumed by website
- Used Node.js in conjunction with Google distance matrix, Express and MongoDB to provision a standalone API

Utilized: Angular, Node.js, Java, MongoDB, Express, ElasticSearch, Apache Kafka, agm-direction, Redis, polyline

Personal website <https://arvindk.me/>

GitHub: bit.ly/2Q0LEjx

- Designed a portfolio website using Angular, JavaScript. Deployed it using GitHub to a custom domain

Skills

- Programming Languages:** Java, JavaScript ES6, TypeScript, Python, SQL, HTML5, CSS
- Technologies/Frameworks:** Angular, React, Hibernate, Kibana, Node.js, Git, Apache Kafka, ELK stack, EC2, nginx