Arvindkumar Thiagarajan

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Education

Northeastern University, Khoury College of Computer Sciences   Boston, MA
Master of Science in Computer Science, GPA: 3.83   Dec 2020

Ramaiah Institute of Technology   Bengaluru, KA, India
Bachelor of Engineering in Computer Science, GPA: 8.71   Aug 2017

Professional Experience

Software Engineer Co-op   **Fidelity Investments**   **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

Application Programmer   **Wells Fargo**   **Jul 2017 to Jul 2018**
- Worked in a team of 5 to build a web application used to process bank check images, autogenerate and deliver reports
- Saved around 2 man hours per day by proposing and developing "Adhoc service" in 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,

Software developer, Intern   **Wells Fargo**   **Jan 2017 to Jun 2017**
- Worked in a team of 3 to build an MVC application integrating Alpha Vantage API to simulate stock market 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 using Logstash and created visualizations for it using Kibana
Leveraged knowledge in: Java, Spring Boot, Elasticsearch, HTML, CSS, JSP, SWING,

Software projects

MicroTix www.arvind.xyz   **GitHub**: bit.ly/33pP6My
- Built, deployed, and scaled a Microservices based ticketing application with Node, React, Docker, Kubernetes
- Wrote services with Node.js each connected to a Mongo database and hosted on a pod in a Kubernetes cluster
- Used NATS streaming server to publish and listen for service events and ingress nginx to build a load balancer
- Used NextJS React framework to build client. Wrote CI/CD workflows to automate testing and deployment
Utilized: Node.js, Next.js, NATS, Skaffold, Ingress, DigitalOcean, MongoDB, Stripe.js, Docker, Kubernetes, Express

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,

Carbon Footprint tracker   **GitHub**: API: bit.ly/2D7G4ck UI: bit.ly/2PlMKWD
- Design, build, and deploy a web application using Angular to track carbon emissions over a journey based on factors including distance travelled, transport mode, etc. while mapping out the journey on 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

Skills

- **Programming Languages**: Java, JavaScript, TypeScript, Python, SQL, HTML, CSS
- **Technologies/Frameworks**: Angular, React, Spring Boot, Hibernate, Express, Node.js, Git, Apache Kafka