

VIKRAM KANNAN MURALIDHARAN

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SUMMARY

An aspiring Software Engineer who is creative, likes to explore new technologies, a quick learner and loves challenging roles

EDUCATION

Master of Science in Computer Systems Engineering (GPA: 3.733)

09/2019 – 12/2021

Northeastern University, Boston, MA, USA

Relevant Courses: DevOps, Enterprise SW design (Spring framework), Web Design and UX (MERN stack)

Bachelor of Technology in Information Technology

08/2015 – 06/2019

Sri Venkateswara College of Engineering (Anna University), India

Relevant courses: Data structures and Algorithms, Object Oriented Programming, Mobile Application Development (Android)

TECHNICAL SKILLS

Programming Languages : Java, JavaScript, Python, Kotlin, SQL, C/C++

Back-end development : Spring Boot/MVC (J2EE), NodeJS, OAuth, Basic and JWT Authentication, JDBC, JPA, Hibernate, SOAP

Database technologies : RDBMS: MySQL, Oracle DB, SQLite, NoSQL: MongoDB, Redis, DynamoDB

Cloud and DevOps : Jenkins, Docker, Kubernetes, Terraform, AWS (IAM, EC2, ECS, S3, CloudWatch), Azure, GCP

Front-end development : React, Redux, HTML, CSS, Bootstrap, JQuery, AJAX, JSON, XML

Mobile Development : Native Android development (Java and Kotlin), AOSP building, Espresso, Retrofit, Glide, Junit

Tools and Platforms : Git, Gerrit, Boto3, GitHub Actions, Jira, Nginx, Maven, Selenium, Gradle, Unix/Linux, Windows

WORK EXPERIENCE

Software Engineer Co-op – Kinze Manufacturing Inc., Iowa, USA

01/2021 – 09/2021

- Developed **RESTful** web services and Junit **unit tests** for Kinze's BlueSky Spring boot server which are currently **used in Production**
- Carefully **architected MySQL database** schemas with the right balance between normalization and query performance
- Developed **React/Redux** frontend using function components, Hooks and styled components and hosted on **AWS EC2** with **Nginx**
- Automated** the entire build, test and **AWS** deployment process of Kinze's BlueSky Spring boot server using **Jenkins CI/CD**
- Developed new features, improved UI responsiveness, and fixed several bugs in Kinze's BlueVantage **android app** (Model Year 2022)
- Helped the test team by vastly reducing the time taken to obtain test results from **12 hours to 4.5 hours** using **Jenkins** parallel run

Software Engineer Intern – Ericsson, India

12/2018 – 06/2019

- Developed REST API endpoints with **Spring Boot** to stream raw data from a metrics file and serve it to a React frontend dashboard
- Modified the **React** app to use function components and Hooks, and improved code quality resulting in **15% faster page loads**

Software Developer (Part-time) – Sri Venkateswara College of Engineering, India

09/2016 – 04/2018

- Developed several projects for the college including the **official Android app** and e-Certificate Generator web app [Video Demo](#)

PROJECTS

Get It Cheap Application – Android and Backend project

[Google Play store link](#) | [Video Demo](#) | [Android code](#)

- Developed an Android app and launched it to Google Play store to **solve a real-world problem** of not being able to find items for rent
- Built secure REST APIs (JWT Authentication) using **Spring Boot** with **MySQL** as the database and hosted it on **AWS EC2**
- Built a **Continuous Integration** workflow using GitHub actions and **Continuous Deployment** workflow using AWS CodeDeploy
- Technologies used:** Kotlin, Retrofit2, Places API, MySQL, JWT, JDBC Template, AWS (EC2, S3, IAM, Elastic IP, VPC), Linux, Bash

Twitter Clone – Full stack and DevOps project (CSYE 7220 DevOps course work)

[Video Demo](#) | [Source code](#)

- Developed a **microservices** based Twitter clone using **NodeJS** (express) and **React** (hooks) with Queuing and caching mechanisms
- Deployed the microservices as **containers** using **Docker** and **Kubernetes** on Google Cloud Kubernetes (GKE) using **Terraform**
- Technologies used:** JavaScript, NodeJS, MongoDB, RedisJSON, React, Docker, Kubernetes, Terraform