

K.A Sai Swagath

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TECHNICAL SKILLS

Programming Languages: Java, C
Frameworks: Node JS, Express JS, Spring Boot, Hibernate, IBM WebSphere Commerce V7, ReactJS
Web Technologies: HTML, CSS, JavaScript, D3.js, jQuery, JSON, AJAX, Bootstrap, RESTful API
Version Control: Git, Bitbucket, Perforce
Agile Tools: JIRA, Confluence
Servers/Tools: Tomcat, Postman, AWS, circleci, IntelliJ
Database: MYSQL, MongoDB, NoSQL, Redis, Oracle 11g

EDUCATION

Northeastern University, Boston, MA

Master of Science in Information Systems **GPA:3.72**

May 2020

Relevant Coursework: Cloud Computing, Web Development, Program Structure and Algorithms, Big Data Design

VIT University, Vellore, India

May 2016

Bachelor of Technology in Electronics and Communication Engineering

Relevant Coursework: Object-oriented programming, Computer organization, and architecture, Computer Networks

PROFESSIONAL EXPERIENCE

The MathWorks, Boston, USA

Jun 2019 – Dec 2019

Software Engineer Intern

- Altered **MATLAB** test session bucketing algorithm, which resulted a cost saving of 300,000 USD
- Created visualization using **D3.js** to detect abnormalities in host allocations across different platforms
- Optimized SQL queries which resulted in performance **improvement** by 10%
- Transformed Perl web services into Java REST APIs with better code organization, optimization, and readability

SapientRazorfish, Bangalore, India

Sep 2016 - Aug 2018

Software Engineer

- Worked on developing an online book Store using **Spring MVC** and **Hibernate**
- Developed personalized product suggestion for users using IBM WCS, thereby **increasing sales** by 6%
- Revamped **REST APIs** with third party services to make users more interactive and engaging
- Handled Data Migration which moved catalog data from remote server location and loads it into WCS system

Graduate Teaching Assistant, Course: **Application Engineering and Development**, Boston

Jan 2019 - Present

- Mentored Graduate students to learn basics of software architecture using Java based on Ecosystem model
- Assisted professor with enhancing the teaching materials and conducting weekly code review for assignments

ACADEMIC PROJECTS

BuyGadgets.com(BuyGadgets.com)

Sep 2018 - Dec 2018

- Designed a responsive consumer electronics e-commerce website using **MongoDB**, **Express**, Handlebars, and **Node**
- Used **passport.js** to support authentication using local strategy and Integrated **stripe.js** for accepting payments
- Managed data such as product catalog, user credentials, order history, payment details of user's using MongoDB

Files On Cloud(Spring Boot, AWS, Namecheap, GitHub, Circleci, Postman)

Jan 2019 - Apr 2019

- Implemented authentication enabled web-app (**Spring Boot**, **Hibernate**, **MySQL**) interacting with multiple AWS services such as **SNS**, **SQS**, **IAM**, **S3** running on **Load Balanced**, **Auto-Scaling EC2 instances** with application logging in **Cloud watch**
- Established a continuous deployment pipeline for web-app using **Github**, **Circleci** and **AWS CodeDeploy**
- Scripted provisioning of networks and application stack including **VPC**, **Route Table** etc. using **CloudFormation**
- Provisioned email notifications with serverless code running on **AWS Lambda** and **DynamoDB**

PERSONAL PROJECTS

Airline Ticket Booking Application

- Developed an Airline ticket booking application using **Spring MVC** and **Hibernate**
- Used hibernate **annotations** for defining object-relational metadata and managed roles using **Spring Security**
- Experienced in **HQL**, **Criteria API**, **Mapping Collections**, **Hibernate Caching**, **Hibernate Transactions**