Kasi Karuppiah Alagappan

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Available: **July 2019**

EDUCATION

Northeastern University, Boston, MA   **Apr. 2019**
Master of Science in Computer Science   **GPA: 3.4**
Courses: Information Retrieval, Algorithms, Robotics Science and Systems, Foundations of Artificial Intelligence, Machine Learning

SASTRA University, Thanjavur, India   **May 2013**
Bachelor of Technology in Information Technology   **GPA: 3.2**

TECHNICAL KNOWLEDGE

Programming Languages:	Python, Java, Perl, JavaScript, Kotlin, Swift, MATLAB, Bash
Web Technologies:	React, Redux, HTML, CSS, Angular, Spring Boot, Django Rest Framework, Node.js, Express.js
Database:	MySQL, MongoDB, PostgreSQL, SQLite, Cloud Firestore, Realtime Database, Realm, Neo4j
Tools:	Git, Maven, pip, npm, SonarQube, AWS, Terraform, Ansible, uWSGI, NGINX, Jenkins, GCP
Testing Frameworks:	JUnit, Jest, Mocha, Watir

WORK EXPERIENCE

New York Life Insurance Company, New York, USA

Cloud Software Engineer - Co-op, New York Life Ventures R & D Lab   **May 2018 – Dec. 2018**
- Built an Electron app to migrate AWS resources between regions using AWS SDK, Terraform and Spring Boot
- Developed a React SPA to create processing rules and transform huge CSV files using Django REST framework and Dask
- Automated Django app deployment on AWS using Ansible, uWSGI, and NGINX
- Integrated Braintree payment platform with existing react application using Node.js backend

Northeastern University, Boston, MA

Research Assistant - Programmer, Department of Psychology   **June 2017 – May 2018**
- Developed a native multilingual Experience Sampler app with region-specific features for Android using Kotlin, and Firebase to collect data from participants during the period of study
- Collaborated with the research team in Zurich to design Dot Memory Task, a native Android app using Kotlin and Firebase to analyze the cognitive ability of the participants
- Created a REST API using Apps Script to populate survey responses from Cordova apps onto Google Sheets

athenahealth, Chennai, India

Software Engineer, Patient Transactions   **Mar. 2015 – Dec. 2016**
- Developed a new collections workflow to avoid patient balance mismatch with agencies and improve retrieval rate
- Optimized long-running SQL queries to use 90% less buffer size and cost thus reducing the running time by 3 hours
- Designed core logic to remove discounts applied by the Sliding Fee Discount Program before sending patients to collections

Programmer, Claims EDI   **May 2014 – Feb. 2015**
- Automated file upload/ download to/ from payor websites via screen scraping using cURL
- Provided real-time dev support for collections project and performed triage on production issues

Ford Motor Company, Chennai, India

Trainee Software Engineer, COPAC   **July 2013 – May 2014**
- Executed feasibility study and conducted an impact analysis for H567 project
- Created change documents for proposed changes and implemented approved code changes

ACADEMIC PROJECTS

Slack clone - Java, Maven, JPA, RDS, JUnit, SonarQube, Jenkins, EC2   **Feb. 2019 – Apr. 2019**
- Developed a slack clone in an agile team using Java, Maven, Java Persistence API, Amazon RDS, and Junit
- Automated deployment on EC2 using a Jenkins CICD Pipeline with SonarQube to ensure Continuous Code Quality

Tesseract Movie Database - React, Spring Boot, PostgreSQL, SendGrid   **Mar. 2019 – Apr. 2019**
- Developed a React SPA to search movies, filter results, view movie details, add reviews/ comments, add movies to favorites
- Implemented multiple user roles with distinct functions and also added multiple layer caching to improve performance

AWARDS

- **Winner** of **Neo4j GraphHack 2018** for **'Best fully functional application'** category
- **Winner** of **athenahealth Hackathon 2015** organized by athenahealth, India