

# SAI KUMAR KOVOURI

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## SUMMARY

- Extensive knowledge and experience in building applications using J2EE, Spring, Hibernate, ReactJS, various databases.
- Working experience in developing web services and integrating applications using Java API for RESTful Services.
- Experience in CI/CD using Gitlab, Jenkins and deployment experience on Docker, AWS and Azure instances.

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## EDUCATION

**Masters (CS)** - University of Missouri, Columbia, Missouri | GPA 3.9/4.0 **Graduated:** Dec 2017  
Coursework: Cloud computing, Algorithms, Data Mining, Machine learning, Object oriented design.

**Bachelors (CS&E)** - Osmania University, Hyderabad, India | GPA 3.8/4.0 **Graduated:** May 2013

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## TECHNICAL SKILLS

**Programming / Scripting Languages:** Java/J2EE, C#, Python, PHP, ReactJS, AngularJS, JavaScript, Shell Scripting

**Databases:** Oracle SQL developer, MS SQL server, MySQL, MongoDB

**Platform / Frameworks:** Spring, Hibernate, Struts2, .NET MVC, JAX-RS, JAX-WS, Redux, Laravel, JMS, RabbitMQ

**Other skills / Tools:** Unix, Virtualization, AWS, Docker, Git, Junit, NUnit, Eclipse, SVN, Visual Studio

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## PROFESSIONAL EXPERIENCE

**Advanced Micro Devices | Sr. Application Engineer** **Austin, Texas | April 2018 – Present**

Working in Application Engineering team to build applications/tools used by multiple teams across business unit.

- Built an internal web application ground up to manage hardware infrastructure using Java, Spring5, Hibernate.
- Worked on a profiling tool to capture large performance events that occur during program execution using limited number of performance monitor counters available in hardware and post-processed data into a human-readable report.
- Automated system under test configuration tuning using python, shell scripts and wrote java programs to parse large log files.
- Collaborated with a team in improving a suite of tools which helped to debug and verify CPU performance bottlenecks.
- Analyzed virtualization, database and HPC workloads on servers with various hypervisors and AWS, Azure cloud instances.

**Dish Network | Software Analyst/Developer 1** **Englewood, Colorado | Jan 2018 – April-2018**

- Developed core components of a web-based tool in test driven development environment to help customer service agents to manage training production cycle, training scheduling using Java, Spring MVC, Hibernate, React, Redux and SQL developer.
- Delivered multiple user stories by gathering requirements from customer service leadership team.

**Assessment Resource Center | Graduate Research Assistant** **Columbia, Missouri | June 2016 – Dec 2017**

- Worked on a performance evaluation web-app built in C#, AngularJS to assist researchers at university track goals/objectives.
- Built course evaluation platform using C#, MVC5, AngularJS to receive input from students on their professor's performance.
- Wrote utility class libraries and modified existing web pages to be responsive using Bootstrap, CSS increasing usability.

**Cisco Systems | Software Engineering Intern** **San Jose, California | May 2017 – Aug 2017**

- Developed a real-time monitoring tool in python to capture and visually display resource utilization in a Hadoop cluster.
- Built a defect analysis dashboard a 3-tier online web portal for data analysis and reporting using Python, Django, MongoDB.
- Analyzed storage disks yielding low performance by writing fio script and parsed output files using python.

Worked as a Java developer in Card Account Manger team which focuses on building high performance web applications to AT&T client. Participated in all phases of SDLC from requirement analysis to deployment.

- Developed core modules of AT&T ECAM enterprise web application and integrated it with billing application using JAX-RS.
- Improved performance of transactions by implementing indexes which reduced the time taken to retrieve data.
- Streamlined and automated production tasks by writing shell scripts which interact with database.
- Built Implementation Plan tool in Java using Spring to send task updates during project release, which saved 150 IT hours.
- Automated weekly defect report by developing a 3-tier interactive defect analysis dashboard in Java, HTML, Bootstrap, C3.js.
- Oversaw high priority system critical issues during migration of CAM servers from Convergys to NetCracker.
- Technology stack: Java, JSP, Servlets, Struts2 framework, Hibernate, SQL developer, JAX-RS, JMS.

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## **ACADEMIC PROJECTS**

### ***Intelligent Video Streaming Using Software Defined Networking***

- Implemented OpenFlow controller for intelligent video streaming and automatic network route selection to improve quality of experience, hosted server on AWS. (JavaScript, PHP, HTML5, MySQL, AWS)

### ***[CyNeuro.org](#) – Neuroscience Gateway***

- Designed and developed gateway portal using PHP, Laravel, AngularJS and hosted on AWS instance using LAMP server. Created RESTful API endpoints using python and flask micro framework.

### ***Cancer classification using Support Vector Machine***

- Identified ALL and AML cancer types based on microarray data using Support Vector Machine classifier. (Matlab, Python)

### ***Handwritten character recognition using KNN***

- Implemented k-nearest neighbors algorithm, written characters were predicted with 82% accuracy, performed dimension reduction using Principal Component Analysis and feature extraction using scikit-learn and NumPy.

### ***IMDB 5000 Movie Dataset Analysis and Prediction***

- Analysis and prediction of socio-economic trends in movie industry using decision trees and regression analysis. (R, Python)

### ***Android applications***

- Developed an Android application, which aimed at finding the possible ways to measure visual acuity errors. (Java, Matlab)
- Built an Android application at HackMizzou, which gives a complex algebraic expression to solve. (Android SDK, Java)

### ***Instant Messenger with RSA encryption***

- Developed a Java-based application that provides secure instant messaging with help of RSA encryption.

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## **ACHIEVEMENTS**

- Received DESG award for excellence at Advanced Micro Devices. 2019
- Received Spotlight Excellence Employee award for best performance at NetCracker Technology Solutions 2014
- Certified by EMC2 on Information Storage Associate Version 2 2013
- Cleared proficient level certification in Java, UNIX and Shell scripting at NetCracker Technology Solutions 2013