AKASH KUMAR

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EDUCATION

University of Florida   Aug 2022 - May 2024
Masters of Science in Computer Science (GPA - 3.6/4.0)   *Gainesville, FL, USA*

EXPERIENCE

Servicenow | *Software Engineer 2 — Seattle, WA, USA*   June 2024 - Present
- Has yet to begin role.

AMD | *Software Engineer Intern — Austin, TX, USA*   Jan 2024 - May 2024
- Designed and implemented a streamlined log analysis web app using **Streamlit**, ensuring efficient data visualizations.
- Optimized processor performance - GFLOPS, significantly enhancing computing efficiency by **40%** using ML model.
- Streamlined a data processing pipeline, enhancing efficiency by **30%** and enabling robust analytics capabilities.

Juniper Networks | *Software Engineer Intern — Sunnyvale, CA, USA*   May 2023 - Aug 2023
- Contributed to a **Fabric architecture** and executed a **load-balancing** algorithm that slashed latency by **20%**.
- Enhanced routing algorithms with an advanced data caching mechanism, significantly improving system efficiency; Achieved a **30%** reduction in memory overhead, enhancing overall application performance; Boosted algorithm execution time by **25%**, leading to faster data processing.

Tekion Corp. | *Software Engineer*   Nov 2021 - Jul 2022
- Worked on a payment system - Tekion Pay based on Spring MVC that handles over **30k** monthly transactions. Engineered a transaction processing module for backend, utilizing Hibernate and MYSQL, elevated transaction efficiency by **20%**.
- Integrated microservices architecture in Tekion Pay by decomposing the monolithic backend into independently deployable services and **40%** less downtime, enhancing system reliability.
- Created an **asynchronous service** with thread executor, streamlining onboarding & reducing manual API workload by **80%**.
- Implemented content management for calculating tax and fees with low-latency APIs for **60%** faster transactions.

Acko Technology | *Software Engineer*   Jun 2021 - Nov 2021
- Engineered a robust policy management portal, leveraging Docker to expedite deployment of policy cards; reduced processing time by **40%** and enhanced scalability for seamless policy updates.
- Augmented Excel upload functionality by integrating Redis, optimizing database transactions and slashing processing time from **1.3 seconds to 0.5 seconds.**

Amazon | *Software Developer Intern*   Jan 2021 - Mar 2021
- Developed an asset Service that allowed users to schedule and monitor asset maintenance efficiently, reducing the time for workflow deployment by **2x** by reducing API calls.
- Built a hybrid of HyperLogger and Detailed Logging System (CDLS) for optimizing and streamlining log management by introducing a common asynchronous, persistent and queryable platform (ZeroMQ, ElasticDB).

TECHNICAL SKILLS

Languages: Primary: Java, C/C++, Python, MYSQL | Others: JavaScript, HTML/CSS, Erlang, PL/SQL, Shell script
Lib/Frameworks: Java EE, Spring framework (JDBC, JPA, MVC), RESTful webservices, NODE.JS, Kafka, Nginx, Elasticsearch
Tools: CI/CD (Jenkins), Docker, Kubernetes, SOAP, Junit, JSON, Postman, Git, JIRA, SonarQube, Splunk
Courses: Adv. Data Structures, OOPS, Applied Machine Learning, Dist. Operating Systems, Analysis of Algorithms

KEY PROJECTS 🔗 [AKASH KUMAR]

Micro Quiz Engine | *Java, Spring Boot, PostgreSQL, Eureka, REST API*   Learning Project
- Implemented a quiz application with a scalable microservices architecture and executed a high-performance API gateway, enabling dynamic scaling and load balancing; boosted system performance by **40%** and reduced response time by **50%**.

Natural Language To Bash Commands | *Python, NLP, Pandas, CNN, TensorFlow, Torch*   Academic Project
- Orchestrated the implementation of a state-of-the-art Seq2Seq model with a Transformer-based Encoder-Decoder architecture, fine-tuning hyperparameters to achieve a **25%** reduction in language translation errors.
- Integrated a custom transformer to generate **Bash commands** from natural language input (English), resulting in **74%** accuracy.

Interactive Resume | *Phaser JS, HTML5, CSS3*   Portfolio
- Coded resume as a game by putting in over **200** hours and using different moving props and levels using **Phaser JS**.

EXTRACURRICULARS

- **ACM ICPC**: (The Olympics of Programming) Regionalist 2019; Top **99.89** percentile HackerEarth.
- **Problem Solving**: Leetcode rating 1730+ globally; Google Codejam Qualifier; Top ranks in Google Kickstart.