Shaurya Kethireddy

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EDUCATION

University of Wisconsin - Madison   Sept 2018 – Dec 2021
Bachelor of Science in Computer Sciences
Minors in Mathematics, Entrepreneurship

Related Coursework:
Operating Systems, Algorithms, Combinatorics, Artificial Intelligence, Linear Algebra, Discrete Math, Database Systems, Cryptography, Combinatorial Optimization, Machine Organization, Business & Marketing, Risk Management, Data Structures

EXPERIENCE

NBCUniversal, New York City, NY – *Software Engineer Intern*   Sept 2021 – Dec 2021
- Migrated existing infrastructure to the AWS cloud and replacing large, costly **EMR** jobs with **Lambda** functions
- Created an automated pipeline to parse, sanitize, and format customer data that gets updated into an **RDS** database daily
- Collaborated with various members of senior leadership to organize meetings to gather workload details and feedback

Amazon Web Services, Chicago, IL – *Solutions Architect Intern*   Jun 2021 – Sept 2021
- Utilized the various AWS products to design cost-efficient yet secure & reliable architectures that meet the customers' needs
- Implemented an **AI chat-bot** POC using AWS **Lambda**, **Lex**, **DynamoDB** to scale according to customer's traffic demand
- Deployed an infrastructure utilizing **EC2 Spot**, **S3**, **Aurora**, **SQS**, **Lambda** to make an architecture **58%** more cost effective
- Presented architectural best practices, hosted immersion days, and assisted with migration based on customers' needs

Sentry Insurance, Madison, WI – *Associate Software Engineer*   May 2019 – May 2021
- Fixed critical algorithmic defects throughout various web apps to improve runtime and system experience
- Optimized systems to **run 40% faster** while using **22% less memory** as well as **reducing length of code by 18%**
- Spearheaded the conversion of the first application in the org from **Struts** to **Spring MVC** and created an enterprise standard
- Full stack development of an internal app from scratch which is now being used to retrieve essential insurance info by agents

MinervaAI, Madison, WI – *Market Research Intern*   Jan 2021 – May 2021
- Researched the top competitors in the AML industry to provide a detailed competitive landscape analysis
- Web scraped over **720** sites in under **9** seconds using **Python**, **BeautifulSoup**, **asyncio** to run requests concurrently
- Computed financial charts and presented findings directly to the CEO/COO which are being used in the investor pitch deck

EXTRACURRICULARS

Wisconsin Track Club, Madison, WI – Sprinter   Sept 2019 – Dec 2020
- Travelled to events and participated in the 200-meter sprint, 400-meter sprint, and 1600-meter relay
- Captain of the 200/400-meter sprinters – led them during practice and worked with the head coach to make optimal teams

JPMorgan Chase – Virtual Experience Program
- Software Engineering – Implemented a localhost interface which displays data visually using JPMC frameworks
- Commercial Banking – Prepared capitalization tables, 10Y financial models, presentations, and other metrics

Goldman Sachs – Virtual Experience Program
- Software Engineering – Analyzed encrypted passwords to propose new policies to follow to secure information

NOTABLE PROJECTS

- Created a full-stack application for Sentry to get information by integrating data from Excel files into a SQL Database and creating an API to call data and filter by user preference which would be shown on a specific page
  - Used **Spring MVC** framework to build the app. Utilized technologies such as **Java**, vanilla **JavaScript** with **jQuery**, **HTML**, **XML**, Hibernate framework for **SQL** Server connection. Dealt with all phases of the **SDLC**
- Built out a minimum viable product of a data ingestion pipeline for a customer to on AWS platform taking in consideration of their concerns regarding high availability, reliability, security, all while finding the most cost-effective methods
  - Deployed with S3, EC2, Aurora MySQL, Lambda, SQS, IAM, CloudWatch, SNS, KMS, Budgets

SKILLS

- Languages: Java, Python, C, SQL, C++, JavaScript, HTML, CSS
- Frameworks: Spring MVC, Struts, JUnit, RestAPI, Hibernate
- Technologies: AWS, Bitbucket, Jenkins, Jira, Git, Gradle, Slack, Apache Tomcat, JFrog, SoapUI