

# Shaurya Kethireddy

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## EDUCATION

**University of Wisconsin – Madison** – Madison, WI

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

- Working on migrating current infrastructure to the AWS cloud and replacing large, costly EMR jobs with Lambda functions

**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

**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

**Self Employed**, Madison, WI – *Options Trader*

Jun 2017 – May 2021

- Primarily trading options and spreads as well as parking capital in high potential SPACs near NAV as cash reserves
- Tail-hedged through the 2020 market crash using news and premiums while finding inverse and correlated relationships
- 2020 ytd **+471%** | 2019 ytd **+107%** | 2018 ytd **+52%** | 2017 ytd **-28%**

## 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

**Citi Bank** – Virtual Experience Program

- Trading - Analyzed news flow and market conditions to write up models that include projections and impacts on assets classes

## 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**

## 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