

# 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

**Amazon Web Services**, Chicago, IL – *Solutions Architect Intern*

Jun 2021 – present

- Utilized the various AWS products to design the most cost-efficient architectures which meet the customers' needs
- Implemented an **AI chat-bot** POC using AWS **Lambda**, **Lex**, **CloudWatch** and presented it to the various stakeholders
- Built solutions for companies utilizing different **EC2** types, **S3**, **RDS**, **Lambda** to optimize cost while boosting performance

**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
- Conversed with PMs, FMs, and retail traders to get unique perspectives on market related events
- 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

- Sales and Trading – Presented ideas to navigate through the market by analyzing covid news as well as examining the overall market condition to write up an analytical model which summarizes projections, news flow, 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, SQL, C, C++, JavaScript, HTML, CSS
- Frameworks: Spring MVC, Struts, JUnit, RestAPI, Hibernate
- Technologies: AWS, Bitbucket, Jenkins, Jira, Git, Gradle, Slack, Apache Tomcat, JFrog, SoapUI
- Trading Platforms: ThinkOrSwim, Robinhood, Fidelity, Webull