

SHREYA BOYAPATI

☎ (630) 999 6936 ✉ shreya09b@gmail.com <https://www.linkedin.com/in/shreya-boyapati/>

Education

University of Illinois at Chicago

August 2020 - May 2024

Bachelor of Science in Computer Science

GPA: 3.90 / 4.00

Relevant Coursework: Cloud Computing, Software Engineering I and II, Software Design, Machine Learning, Data Science

Extracurriculars: President of Fencing Club, CodePath Advanced Software Engineering

University of Illinois at Urbana-Champaign

August 2024 - December 2025

Masters in Computer Science

Experience

Amazon

May 2023 – August 2023

Software Development Engineer Intern

Seattle, WA

- Designed and implemented an end-to-end application to automate the continuous update of **DynamoDB** store with partner data, resulting in a 15% increase in operational efficiency
- Used **AWS Lambda** and **AWS EventBus** to create a high-performance event parser for **SQS** event messages that is capable of processing over 1,000,000 updates in a millisecond
- Streamlined the work of 5,000 people by onboarding **AWS Partner Funding Service** to new internal API

Childhood Cancer Society

March 2022 – August 2022

Web Development Engineer Intern

Chicago, IL

- Created and implemented design changes in website leading to a 10% increase in traffic using **Figma** and **WordPress**
- Slashed site hosting costs by \$600 per month by communicating with and evaluating new service providers
- Developed and helped manage **Google Ads** campaign with a monthly budget of \$10000, leading to increased click rate

Upstream

June 2022 – August 2022

App Development Engineer Intern

Chicago, IL

- Developed interactive, custom story presentation features for a cross-platform app using **Python**
- Improved CRUD features for the admin interface and user management interface, leading to a 5% decrease in errors

University of Illinois at Chicago

June 2021 – August 2021

Machine Learning Engineer Intern

Chicago, IL

- Improved LSTM network for a 50% reduction in training and validation loss using **Keras** and **TensorFlow**
- Slashed validation loss by 20% and overall loss by 53% by determining ideal number of epochs
- Extracted and consolidated data from 100+ csv files and analyzed key statistics and values using **Python**

Projects

Random Parallel Walker | *Scala, Apache Spark*

- Developed speedy algorithm that can perform parallel random walks on graphs of 1000+ nodes in under 100 ms using **Apache Spark**
- Used **GraphX** methods and custom **SimRank** algorithm to detect subtle differences between graphs

Fitness and Nutrition Buddy | *Java*

- Created interactive application in **Java** and integrated functionalities designed by multiple team members
- Designed and implemented fun and engaging user interface using **Java** and **FXML**

SimplePy Interpreter | *C++, Python*

- Built an interpreter that executes **SimplePy** (subset of **Python**) code for variable manipulation, input/output, and string operations in a **C++** environment
- Integrated algorithm to tokenize and interpret **Python** files that are 50+ lines long

Volcanic Web Map | *Python, HTML*

Live App

- Built a multi-layer web map showcasing volcanoes throughout the United States using **Python**, **Folium**, and **Leaflet**
- Implemented legend and popup markers containing additional information and insight using **HTML**

Skills

Programming Languages: Python, Java, C/C++, Scala, SQL, HTML, R

Technologies/Frameworks: AWS Services, Apache Spark, Apache Hadoop, VS Code, Git, Pandas, NumPy