LANGUAGES

Assembly (x86-64) C Coq/Gallina Haskell Iava **IavaScript** Lean **OCaml** Python R Rust Scala **SQL TypeScript**

LEADERSHIP

WeBring: December 2020 https://github.com/bhaktishh/WeBring

Winning project at a hackathon. Team Leader. Built a service that allowed elderly individuals to request services via SMS, using Twilio.

Interstell<her> Hackathon:

February 2021

Mentored elementary and middle school girls for an app development hackathon over the course of two days.

stories@CAJCS: April 2019 -

December 2019

Founder and Organizational Head of an annual event aimed at highlighting individuals in non-conventional career fields.

TEACHING

Virtual Introduction to Programming course: June 2020 Designed and conducted a course for children aged 6-9. Primarily in Scratch.

Coding4Youth: June 2021 - August 2021

AP Java and Mathematics tutor.

Teaching Assistant/Grader: CMSC 16100 [Honors Introduction to Computer Science IJ Fall 2021.

CMSC 11111 [Creative Coding] Winter 2022.

CMSC 15200 [Introduction to Computer Science III Spring 2022. CMSC 27100 [Discrete Mathematics] Fall 2022.

CMSC 14200 [Introduction to Computer Science III Winter 2023.

Course Assistant: CMSC 22300 [Functional Programming] Fall 2022. Provided feedback and beta tested potential assignments.

INTERESTS

Playing and watching soccer Creating art Playing the piano

EDUCATION

The University of Chicago Chicago, IL B.S. Computer Science (Declared) June 2024

GPA: 3.75/4.00

SELECTED WORK EXPERIENCES

Amazon Web Services (AWS) [http://aws.amazon.com/]

East Palo Alto, CA, US June 2022 – September 2022

Software Development Engineer Intern

- Transitioned the logging system for a backend dependency of the AWS Global Console to a more robust and accessible platform. Made configuration changes that improved latency and ease of use for all service teams across the Console.
- Wrote holistic end to end tests in TypeScript using the Jest framework for the same backend service, allowing a transition from slower, manual deployments to faster, automated deployments for a high priority service.

Bankuish [www.bankuish.com/]

Android Development Intern

Chicago, IL, US

April 2021 - June 2021

- Built the learning component of the Android application Bankuish in Java.
- Utilized the YouTube API to display content dynamically.

Computer Science Instructional Laboratory [csil.cs.uchicago.edu/]

Chicago, IL, US March 2021 - Present

Systems Administrator Assisting members of the computer science community with their technical needs.

Head of Inventory and Scheduling, responsible for 5 computer labs and ~30 staff members.

Sameeksha Capital [sameeksha.capital]

Mumbai, MH, IN

July 2020

June 2019

Built software that compiled data about company executives' interviews dynamically.

- Scraped web data in Python, utilizing the Selenium webdriver API.
- Stored data using the Pandas library and pickling for efficiency.

Heckyl Technologies [http://heckyl.com/]

Mumbai, MH, IN

Intern – Java Team

Intern

- Built software that compiled data from regulatory sites and documents.
- Scraped web data in Java, utilizing the HTMLUnit browser and PDFBox library.
- Stored data in a MySQL cloud database, using SQL commands.

SELECTED PROJECTS & RESEARCH

tree-house

March 2022 – June 2022

Worked on a code editor focused on direct manipulation programming systems in TypeScript. Based on Sketch-n-Sketch. Under guidance of Ravi Chugh, Associate Professor, University of Chicago.

Chicago Quantum and Programming (Languages) Lab

April 2022 - Present

https://chiqp.cs.uchicago.edu/

Worked on formal verification of a quantum programming library. Currently working on translations between Lean and Coq theorem provers. Under guidance of Robert Rand, Assistant Professor, University of Chicago.

ucopendata

January 2021 – December 2021

https://github.com/UCOpenData

Analyzing the impact of remote learning on student sentiments, using web-scraping in Python, utilizing Pandas, BeautifulSoup, and Selenium.

Human-Robot Interaction Lab (HRI Lab)

February 2021 – March 2022

https://bri.cs.uchicago.edu/index.html

Exploring the impact of the presence of robots in relation to fostering deep conversations between individuals. Under guidance of Sarah Sebo, Assistant Professor, University of Chicago.

Pediatric Cancer Data Commons (Volchenboum Lab)

June 2021 – September 2021

https://commons.cri.uchicago.edu/pcdc/

Research Assistant with the PCDC. Working with an expert data analyst to map data dictionary terms. Under guidance of Samuel Volchenboum, Associate Professor, University of Chicago.