LANGUAGES

Assembly (x86-64) C
Coq/Gallina Haskell
Java JavaScript
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 I] Fall 2021.

CMSC 11111 [Creative Coding] *Winter* 2022.

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

CMSC 14200 [Introduction to Computer Science II] *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 ChicagoChicago, ILB.S. Computer Science (Declared)June 2024

GPA: 3.75/4.00

SELECTED WORK EXPERIENCES

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

Software Development Engineer Intern

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

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

Systems Administrator

March 2021 - Present

- 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 <u>Sketch-n-Sketch</u>. 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://hri.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.