SELECTED SKILLS

Languages, Frameworks, & Technologies

Assembly (x86-64) C
Coq Git/SVN
Haskell Java
JavaScript/TypeScript Node.js
Python R
React SQL

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 middle school mathematics tutor.

TA: **CMSC 11111** [Creative Coding] *Winter 2022*.

Grader: **CMSC 16100** [Honors Introduction to Computer Science I] *Autumn 2021*.

Grader: **CMSC 15200** [Introduction to Computer Science II] *Spring 2022*

INTERESTS

Playing and watching soccer Creating art Playing the piano

EDUCATION

The University of Chicago

B.S. Computer Science (Declared) & B.S. Mathematics (Declared)

Chicago, IL
(Declared) June 2024

GPA: 3.69/4.00

SELECTED WORK EXPERIENCES

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

East Palo Alto, CA, US

Software Development Engineer Intern

June 2022 – September 2022

- Transitioned the **logging system** for a backend dependency of the **AWS Global Consol**e 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/]

Chicago, IL, US

Chicago, IL, US

Android Developement Intern

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/]

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

Intern

- 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

June 2019

Intern – Java Team

- 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 - Present

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

ChiQP lab

April 2022 - Present

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

Working on **formal verification** of a **quantum programming library**. Optimizing quantum padding proofs in **Coq**. 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.