

BHAKTI SHAH

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SELECTED SKILLS

Languages & Technologies

Assembly (x86-64)	C
Coq/Gallina	Git/SVN
Lean	JavaScript/TS
Haskell	Jest
Scala	Python
Java	R
SQL	React

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*. **CMSC 15200**

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

Course Assistant: **CMSC 22300**

[Functional Programming] *Autumn 2022*. Providing feedback and beta testing potential assignments.

INTERESTS

Playing and watching soccer
Creating art
Playing the piano

EDUCATION

The University of Chicago

B.S. Computer Science (Declared)

GPA: 3.69/4.00

Chicago, IL

June 2024

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/]

Systems Administrator

Chicago, IL, US

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]

Intern

Mumbai, MH, IN

July 2020

- 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/>]

Intern – Java Team

Mumbai, MH, IN

June 2019

- 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

Developing 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 (ChiQP 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 (Volchenboun 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 Volchenboun, Associate Professor, University of Chicago.