

BHAKTI SHAH

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SELECTED SKILLS

Languages, Frameworks, & Technologies

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

LEADERSHIP

stories@CAJCS

April 2019 – December 2019

Founder and Organizational Head

An **annual event** aimed at highlighting individuals in **non-conventional career fields**.

Virtual Introduction to Programming course

June 2020

Independently designed and conducted

Designed and conducted a course for ages 6-9. Primarily in **Scratch**.

Interstell<her> Hackathon

February 2021

Mentor

Mentored elementary and middle school girls over the course of two days.

Coding4Youth

June 2021 – August 2021

Tutor

Tutored students for an AP Java course.

ACADEMIC

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

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

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

INTERESTS

Playing and watching soccer

Creating art

Playing the piano

PLANNED

EXPERIENCES

Incoming Software Engineering Intern at **Amazon Inc.** East Palo Alto, California. *Summer 2022*.

EDUCATION

The University of Chicago

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

GPA: 3.73/4.00 [Spring 2022]

Chicago, IL

June 2024

SELECTED WORK EXPERIENCES

Bankuish [www.bankuish.com/]

Intern

Chicago, IL

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/]

Tutor

Chicago, IL

March 2021 – Present

- Assisting members of the computer science community at UChicago in the instructional laboratory space. Team leader, inventory & scheduling.

Sameeksha Capital [sameeksha.capital/]

Mumbai, India

Intern

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, India

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 – Present

Developing a code editor focused on direct manipulation programming systems. Based on [Sketch-n-Sketch](https://github.com/tyleryl/Treehouse). Under guidance of Ravi Chugh, Associate Professor, University of Chicago.

QuantumLib

April 2022 – Present

<https://github.com/inQWIRE/QuantumLib>

Working on formal verification of a quantum programming library. Optimizing quantum padding proofs. Under guidance of Robert Rand, Assistant Professor, University of Chicago.

WeBring (*Winning project: Francis and Rose Yuen East Asia Hackathon*)

December 2020

<https://github.com/bhaktishb/WeBring>

Built a service that allowed elderly individuals to request services via **SMS**, using the **Twilio SDK and API**. Developed using **Python**, **HTML/CSS**, and **SQL**. Team Leader.

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.