

# VIBHAV KOTRIWALA

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## EDUCATION

### University of Illinois at Urbana-Champaign (UIUC)

B.S. in Computer Science & Math  
May 2021 | Urbana, IL

GPA: 3.80/4.0

Dean's List Awardee (FA'17, SP'18)

## SKILLS

### Languages & Tools

Proficient: Java | Python | C++ | C | Dart | SQL | mongo

Familiar: JavaScript (React) | Scala | node.js | Kafka | Elasticsearch

### Markup/Templating

LaTeX | HTML | CSS

## COURSEWORK

System Programming

Database Systems

Data Structures

Computer Architecture

Probability & Statistics in Comp Sci

Software Design Studio

Linear Algebra

## ORGANIZATIONS

Association of Computing Machinery

Illinois Programming League

Association of Data Science & Analytics

Engineering Council (EXPO)

## PUBLICATION & HONORS

- Bridge of Brotherhood: An article on the Indo-Chinese Exchange Program
- Token of Honor (Grade 9-12)
- Microsoft Office Specialist

## WORK

### HubSpot | Software Engineering Co-op

Cambridge, MA | June 2019 – Present

- Worked as part of the API Tooling team using *Java* which builds tools to make it simple and easy for developers to build complete and consistent APIs and allows users to view well-documented APIs.
- Developed the *Maven* plugin which auto-generates API Documentation and installed it across *all* services at HubSpot, matured the *Github* PR Feedback tool which informs of breaking change among other tasks.
- Examined common API response error strings and worked to standardize these error messages in all projects across HubSpot.

### 4CeeD – Data Curation | Software Developer

Urbana, IL | June 2018 – May 2019

- Worked under Prof. Klara Nahrstedt to create a cross-platform mobile application using *Flutter* for data management, quick uploads, and previews.
- Replaced old file tree structure with a modern widget using *Webix* library using *JavaScript*; implemented sorting, multiple drag-and-drop, context-menus, filtering, side by side previews for files and folders.

### CS 125 @ Illinois | Data Analyst

Urbana, IL | May 2018 – May 2019

- Worked with the *mongo* database to create a grade prediction tool for students taking CS 125.
- Analysed course data - explored correlations between various facets in the course - attendance vs grades, attention drops, enrolment spikes/drops, student behaviour - using *PyMongo*, *NumPy*, *matplotlib*.

### CS 196 @ Illinois | Course Staff (PM)

Urbana, IL | August 2018 – Present

- Member of Executive Committee and Project Manager; mentor a group of students and grade them on their semester long projects.

## PROJECTS

### Vacation Ready | HackIllinois 2019

Urbana, IL | March 2019

- Created a mobile application using *flutter* which generates travel itineraries based on user interests.
- Used pathfinding and Google Places API to display choices to the end user that will best fit their travel plans.
- Utilizes user feedback to improve recommendations with a location based push notification system.

### LITRIDE | MHacks X

Ann Arbor, MI | September 2017

- Developed an application using the concept of access economy using *Android Studio* and *Firebase* and integrated Google Sign-In, Google Maps, and real-time car tracking using Lyft API.