

MIHIKA PODDAR

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Urbana, IL | Exp. December 2020

B.S. Computer Science and Mathematics

- GPA 3.89 / 4.00
- Dean's List Awardee: Spring '19 | Fall '18 | Spring '18 | Fall '17
- James Scholar

MODERN HIGH SCHOOL FOR GIRLS

Kolkata, India | May 2017

High School Diploma

- Indian School Certificate: 97.5%
- Indian Certificate of Secondary Education: 97.8% (First in Class)

SKILLS

LANGUAGES

- Proficient: Java | Python | C++ | JavaScript | PostgreSQL | MatLab | HTML | CSS
- Familiar: Dart | R | Mongo

FRAMEWORKS AND TOOLS

- React Native | Flask | Flutter | Docker | Kubernetes

COURSEWORK

System Programming (In Progress)

Numerical Methods (In Progress)

Data Structures and Algorithms

Probability and Statistics in Computer Science

Computer Architecture

Discrete Structures

Introduction to Computer Science

Computing for Engineering and Science

Differential Equations (In Progress)

Applied Linear Algebra

Fundamental Mathematics

Calculus I, II and III

ORGANIZATIONS

- Outreach Committee - Engineering Student Alumni Ambassadors (ESAA)
- Member - ACM
- Member - Society of Women in Engineering

EXPERIENCE

FULCRUM GT | SOFTWARE ENGINEERING INTERN

Chicago, IL | May 2019 - August 2019

- Developed an NLP-based Digital Assistant app for the professional services industry for the purpose of easily and efficiently recording and maintaining billable time.
- Worked with *React Native* to develop the front-end of the mobile application. Implemented a modern chat interface with quick response buttons, and support for easy reviewing and editing of previously created records.
- Involved with developing the back-end and database of the application using *Flask* and *PostgreSQL*. Additionally, used *Python* and NLU library *Spacy* for creating the chatbot engine.

CS 125 (INTRO TO COMPUTER SCIENCE) | DATA ANALYST

Urbana, IL | January 2019 - May 2019

- Developing a data visualisation system for real-time updates on the course webpage using *D3.js*.
- Working with the *Mongo* database to analyze course data on student behaviour - time spent on assignments versus grades - to create a Student Health Monitoring and Intervention system using *Pandas* and *PyMongo*.

ILLINOIS GEOMETRY LAB | RESEARCH ASSISTANT

Urbana, IL | January 2019 - Present

- Member of Prof. Philipp Hieronymi's research group on *Automata and Numeration Systems* which is studying addition in non-standard numeration systems and implementing algorithms for addition in a theorem prover software *Walnut*.
- Our goal is to use this software to automatically prove new theorem about combinatorial properties of certain infinite words.

ENGINEERING IT AT UIUC | STUDENT CONSULTANT

Urbana, IL | August 2018 - December 2018

- Worked at *Engineering IT* which assists over 1,100 faculty members and almost 10,000 students at the University of Illinois.
- My responsibilities included Engineering Work Station (EWS) lab maintenance, responding to technical issues, and user support.

PROJECTS

ILLINOIS GENDER DISPARITY BETWEEN MAJORS ANALYSIS

Champaign, IL | July 2018 - August 2018

- Used *Pandas* to analyze a dataset published by the University of Illinois at Urbana Champaign showing *Enrollment by Curriculum, Race, Sex, Residency*, to find the Top 10 majors with the most Gender Disparity, and the most Male and Female Dominated majors.
- Created interactive data visualisations showing the percentage of Gender Disparity in these majors using *D3.js*, *HTML* and *CSS*.