

Bidur Pantha

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EDUCATION

- **University of Pennsylvania - School of Engineering and Applied Sciences** Philadelphia, PA
Master's - Computer and Information Technology January 2022 - May 2023
Courses: Data Structures and Software Design, Algorithms and Computation, Software Development, Discrete Mathematics, Artificial Intelligence, Computer Systems
- **CodePath - Technical Interview Prep** Remote
This course teaches students to solve algorithmic problems for technical interviews August 2022 - November 2022
- **Arizona State University - School of Molecular and Life Sciences** Tempe, AZ
BS - Biomedical Sciences, Minor in Biochemistry; Barrett the Honors College August 2017 - May 2021

SKILLS SUMMARY

- **Software:** Visual Studio, IntelliJ IDEA, Eclipse, PyCharm
- **Languages/Tools:** GIT, Python(fluent), JAVA(fluent), C(fluent)

ACADEMIC PROJECTS

- **Assembler/Disassembler:** December '22
 - Developed a C-based LC4 assembler and diassembler
 - The assembler program reads in assembly language and generates its machine equivalent
 - The disassembler program reads in the binary executable file, parses it, and loads specific commands, data, and labels into a linked list representation of the LC4's program stored on the heap
- **Infectious Disease Tracker:** August '22
 - Built an application in JAVA that analyzes a small set of Twitter CSV and JSON data to look for tweets regarding occurrences of the flu and determines the US states in which these tweets occur
 - Project focused heavily on File I/O, UML, and utilization of N-tier architecture to develop good software quality
- **PDF Table Extractor:** July '22
 - Streamlined workflow for a local company which allowed employees to focus and spend more time on other critical tasks
 - Used Python along with the Tabula and Pandas library, to scrape and concatenate tabulated data from 400+ PDFs and output them as CSV files

PROFESSIONAL EXPERIENCE

- **School of Engineering, UPenn** Remote
Teaching Assistant/Academic Coach (Part-time) August 2022 - Present
 - **Teaching:** Aided incoming students learning for *Intro to Software Development* course in the program
 - **Mentoring:** Held information sessions on program/course resources and helped students with career counseling
 - **Impact:** Contributed to the growth of incoming master's students and helped ease the transition into a new program
- **Essential Scribe** Phoenix, AZ
Medical Scribe (Part-Time) June 2021 - December 2021
 - **Documentation and Organization:** Provided real time medical documentation for physicians at Ironwood Cancer and Research Centers. Organized patient charts in a electronic medical record (EMR) by recording laboratory, imaging, and pathology reports
 - **EMR Review:** Reported any medical data discrepancies to physicians, contributing to accuracy in patient charts
 - **Impact:** Improved physician workflow to allow providers to spend less time documenting and more time with patients, ultimately increasing patient satisfaction
- **School of Life Sciences, ASU** Tempe, AZ
Undergraduate Teaching Assistant (TA) (Part-time) January 2020 - May 2021
 - **Supplemental Learning:** Held office hours, created YouTube videos reviewing topics taught in the course, and conducted review sessions with other TAs
 - **Communication:** Met with the professor and other TAs weekly and communicated students struggles and/or exams
 - **Impact:** Helped students actively learn, improve their exam grades, and prepare them for future courses