

# BIDUR PANTHA

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## EDUCATION

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**University of Pennsylvania - School of Engineering and Applied Sciences**

**Jan 2022 - May 2023**

*Master's, Computer and Information Technology*

*Relevant Courses: Data Structures and Algorithms, Software Development, Discrete Mathematics, Computer Systems Programming, Database and Information Systems, Big Data Analytics*

**CodePath - Technical Interview Prep**

**Sep 2022 - Nov 2022**

**Arizona State University- School of Molecular and Life Sciences**

**Aug 2017 - May 2021**

*Bachelors of Science, Biomedical Sciences / Minor in Biochemistry*

*Barrett the Honors College*

## TECHNICAL SKILLS

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**Languages** | Java, C, Python, HTML, CSS, JavaScript, SQL, MySQL

**Frameworks and Libraries** | NodeJS, ReactJS, ExpressJS, NumPy, Pandas, Tabula

**Cloud Technologies** | AWS(RDS, Route 53), Netlify

**Tools** | Docker, Git, GitHub, Jupyter Notebook, Anaconda

**Software** | Visual Studio, IntelliJ IDEA, Eclipse, PyCharm, DataGrip

## PROJECTS

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**Assembler/Disassembler**

**Dec 2022**

- 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

**Philadelphia Data Analyzer**

**Aug 2022**

- Utilized OpenDataPhilly portal and United States Census Bureau data sets to gain insight into the city of Philadelphia
- Data sets cover topics of real estate, COVID, and population in JSON and CSV format
- Designed program using UML and the implementation followed N-tier architecture, coded in JAVA. Program includes a UI, which allows the user to specify the specific the action to be preformed

**PDF Table Extractor**

**Jul 2022**

- 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

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**Teaching Assistant/Academic Coach (Philadelphia, Pennsylvania)**

**Aug 2022 - Present**

*University of Pennsylvania*

- Provided support to students in the *Intro to Software Development* course for the CIT program at Penn, helping them grasp key concepts and enhancing their software development skills
- Held information sessions on program/course resources and aided students with career counseling

**Medical Scribe (Phoenix, AZ)**

**Jun 2021 - Dec 2021**

*Essential Scribe (Ironwood Cancer and Research Centers)*

- Accurately documented patient encounters in real-time during clinical evaluations using EHR systems
- Collaborated with healthcare providers to ensure thorough and complete medical records
- Improved appointment efficiency by allowing providers to concentrate on patient care rather than documentation