

# Jacob Cannon

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## EDUCATION

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**Temple University, College of Science and Technology**  
*Bachelor of Science in Computer Science*

**Expected Graduation: December 2021**

### Relevant Coursework:

Data Structures & Algorithms, Discrete Mathematics I & II, Operating Systems, Software Design, Low-Level Programming, Principles of Data Science, Data-Intensive and Cloud Computing

## WORK EXPERIENCE

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**Authentise, Philadelphia, PA**

**May 2020 – August 2020**

*Software Engineer Intern*

- Implemented backend features & bug fixes using Python, Flask, PostgreSQL stack for 3D printing web application
- Designed and implemented new APIs, CLIs, and workflows across several existing services in Python through iterative unit and integration tests
- Refactored existing Python code for existing features across several services to improve code readability and usage

**SAP, Newtown Square, PA**

**June 2019 – August 2019**

*Software Engineer Intern*

- Oversaw development of a chatbot prototype to reduce IT ticket volume for Revenue Accounting team
- Developed API to connect chatbot to internal company knowledge bases with Python using Flask
- Created CLIs & scripts to convert and clean data in company knowledge base

## PROJECTS

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**Flash Card Web API (Python, Flask, SQLite)**

**Summer 2019**

- Developed RESTful API for creating flash cards to be implemented with React.js frontend
- Implemented all CRUD operations with Python, Flask and SQLite database
- Authentication was achieved with JWT

**Public Trash Can Finder Bot (Python, Twitter API)**

**Spring 2019**

- Created a Twitter bot that returns directions to nearest waste bin in Philadelphia
- Hosted on AWS with Lambda and S3 and built with Python, Flask, and the Twitter API
- Won Best Social Good Project at Temple University Owl Hacks contest 2019

**Command Line Video Editor (Python, FFmpeg, YouTube-dl)**

**Fall 2018**

- Developed a command line Interface with Python that edits videos based on keywords
- Finds word(s) in subtitles and uses FFmpeg and YouTube-dl for automated video slicing
- Used for automating video editing, batch editing, and GUI-free editing

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript, C, HTML, CSS

**Technologies:** Flask, Django, React, PostgreSQL, AWS, Docker, Git, SQL, Linux, Mac OS