

Tyler Cooc

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Experience

Software Application Developer Intern, Northern California Power Agency June 2023 - Present

- Implemented an API using **C#**, for a bookstore application for creating authors and books.
- Created a client using **Angular**, to show lists of existing/created authors and books.
- Fixed bugs in API backends, and worked on writing unit tests for applications.
- Participated in scrums, code reviews, and demos in an Agile setting.

Student Assistant, California Department of Transportation January 2023 - June 2023

- Using **Python** created a program that sorts PDF folders using user input, reducing work effort by 90%.
- Researched and developed a **Python** file recognition algorithm to detect 100's of file names, create folders, and efficiently sort accordingly. Reducing potential sorting time by 80%.
- Used a database of over 8000+ permits, ensuring that application information was recorded correctly.
- Created, formatted, and maintained 1000's scanned advertising permits in a department network drive

SAP Security Intern, Sacramento Municipal Utility District May 2022 - August 2022

- Performed user maintenance and user authorization, allowing/removing access to key functions within SAP, AMI/UIQ, Gridscape, and ServiceNow systems for 100's of users.
- Using data from within SAP production, I performed role reviews within Excel to confirm the usage of transaction codes per role. This led to the deletion of 1000+ unused tcodes.
- Used Excel in UIQ/Gridscape user audit. Documenting the number of inactive users, to ensure access is only amongst active users. Removed access from 100's of users with improper access.

Projects

Item Development Tracker | Angular, C#. HTML, CSS, TypeScript, ASP.NET CORE

- Collaborated with a team of five to build a web app, that scans QR codes to track items and their progress in different stages of development.
- UI and tables were built using **Angular**, it retrieves item data from the database through a **REST API**.
- Uses a **C#** backend with **ASP.NET** to create API controllers for the individual progress of the items.

Touchless Locker | Python, MicroPython, HTML, CSS, Javascript, Bootstrap, Flask

- Built a website capable of using a local hotspot to control motors programmed in **MicroPython** for the opening/locking mechanism of a locker.
- Used **Python** and **Flask** to create the backend functionality for the user account management system.
- Incorporated SQLAlchemy database to retrieve user creation/login information.
- Designed user interface/locker list interface with **HTML**, **CSS**, and **Bootstrap**.

Note-Taking Website | Python, HTML, CSS, JavaScript, Bootstrap, Flask

- Used **Python** and **Flask** to create a locally hosted web platform for the user, with a database that holds the information of each user and the note data.
- Implemented user interface using **HTML**, **CSS**, **JavaScript**, and **Bootstrap** for the note-taking feature and user account system.

Education

California State University, Sacramento

B.S. in Computer Engineering

August 2019 - May 2023

GPA: 3.62 / Dean's list for 8 semesters

Technical Skills

Programming Languages: Java, Python, C#, HTML, CSS, JavaScript, TypeScript, SQL

Frameworks: Flask, Bootstrap, Angular, ASP.NET CORE, Entity

Developer Tools: Git, SQLAlchemy

Database: MySQL, Oracle