

Jacob Cillay

Software Engineer

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EDUCATION

Bachelor of Science in Computer Science. Pitzer College. Claremont, CA

August 2021

Relevant Coursework:

- **Pomona College:** Data Structures & Algorithms, Neural Network, Computer Systems, Linear Algebra
- **Harvey Mudd College:** Artificial Intelligence, Advanced Programming in Python

TECHNICAL SKILLS

Programming: Python, JavaScript, Java, C, Node.js, GIT, HTML5, CSS, XML, PHP, Angular

Libraries/Platforms: Flask, Regex, Jenkins, NPM, BeautifulSoup, Github, React, Django

Data/Databases: SQL, MySQL, JSON, APIs

EXPERIENCE

Intermedia - Anymeeting, Sunnyvale, CA (Remote)

May 2020 – December 2020

R&D Software Engineering (Core Team) - Intern

- Developed customer facing features for the AnyMeeting Video Conferencing Platform utilizing Scrum as our development meta framework.
- Enhanced customer satisfaction with the implementation of an emoji feature using JavaScript, HTML, and CSS that allowed users to interact in meetings in real time.
- Implemented a setting option for customers to join meetings muted/unmuted and executed a feature to resolve attendee echoing audio issues using JavaScript Events between the meeting application's Node client and server.
- Cooperated with core engineers, Product Manager, and Sr. Manager, for Daily Scrum, Backlog Refinement, and Sprint Planning using JIRA software to execute the software development life cycle.
- Collaborated with the core team of engineers to conduct code reviews and submit pull requests using Git and BitBucket.
- Removed hundreds of lines of unused or dead code from the Anymeeting code repository and implemented tests for each additional feature added.

REU NSF Smart Environments Engineer, Pullman, WA

May 2018 - August 2018

REU NSF Engineering Intern

- Worked with WSU's Digital Memory Notebook (DMN) MySQL Database on a Linux server to gather statistics from the data to create a virtual dashboard to present the data visually.
- Developed a user interface using PHP, SQL, and HTML for users to look for certain participants within the DMN database and gather unique statistics from them.
- Collaborated frequently with NSF Mentor and team members to discuss the project timeline and push code to a private Github Repository.
- Presented the outcome of the project with colleagues from the Smart Home Environment panel explaining our processes and results.

PROJECTS

Sentiment Analysis

- Analyzed over 60,000 messages using SQLite and the Apple iMessaging database and used that data to create visualizations of text messaging sentiment over the year using TextBlob, Pandas, and Seaborn
- Implemented features of the NLTK package for sentiment analysis and trained a Bayes Net Classifier using 40k tweets as data.
- Executed additional tests and visualizations including the most frequently messaged individuals and longest messages that were sent or received from my account.

Web Application -Tune Me In

- Developed a web application using the Django Rest framework and React that allows users to host and join secure meeting rooms to listen to music linked to their Spotify account.
- Utilized the Spotify API to allow users to authorize their personal accounts giving them the ability to access features from their own libraries.