

Vladimir Pinchuk

vpinchuk@sandiego.edu • (505) 967-9179 • [Portfolio Website](#)

Education

University of San Diego

BS, Computer Science - Graduated Aug. 2021 (GPA 3.45)

MS, Finance - Graduation expected May 2022

2017 – Present

San Diego, California

Work Experience

Database Developer Intern

JUN 2020 – AUG 2020

Aya Living Inc.

San Diego, California

- Built a database through FileMaker with an integrated graphical user interface (GUI) that improved workplace productivity by 50% through the automation of data entry tasks
- Designed scripts in Claris Dynamic Markup Language (CDML) that were mainly applied for GUI interactions and maintenance of the database resulting in more structured book keeping of HR related information

Software Engineer Intern, Security

JUN 2021 – AUG 2021

The RealReal

San Diego, California

- Automated the creation of Jira Issues based on vulnerability tickets from three different security tools with the help of Python REST APIs and webhooks, reducing remediation periods by 40%
- Deployed Python REST API cloud functions on AWS Lambda to maximize performance and scalability
- Eliminated 97% of critical vulnerability issues on company wide GitHub repositories to improve overall system security
- Integrated a security tool CLI into the CI/CD pipeline through docker images, allowing for continuing vulnerability scanning of GitHub repositories eliminating risk of pushing unsecured code

Projects

Senior Capstone Project (Qualcomm)

- Developed a Python library that can predict and visualize models of EDA tool usages, minimizing over and under purchasing through linear programming (SciPy, unittest, pandas) and matplotlib
- Created a dashboard (JavaScript, HTML, CSS) utilized by upper management that uses the Python library in combination with a Django database allowing for a web application with CRUD functionality

Chatbot

- Programmed an AI virtual assistant through supervised machine learning and natural language processing to respond to basic messages concerning availability, working schedule and contact information from myself
- Developed a neural network in Python which is used to compute accurate answers based on the given input

Portfolio Website

- Created a portfolio page with the help of JavaScript (React), HTML and CSS incorporating a mobile and desktop layout allowing for a organized and smooth structure for any device accessing the web page
- Deployed the web application on Google Cloud Platform implementing CI/CD methodologies through Docker allowing the website to update in the matter of minutes after changes were pushed to the GitHub repository

Reddit Finance Tracker

- Retrieved multiple Reddit threads from the Reddit API in Python, with the goal of finding trending stocks based on the number of mentions throughout the entire subreddit over a specific amount of time
- Loaded the gathered Reddit threads into a PostgreSQL database, filtering the input by stock symbols with SQL queries resulting in finding the quantity of mentions

Technologies and Languages

Programming languages:

Python, SQL, Java, JavaScript, HTML, CSS, CDML

Technologies:

Amazon Web Services, Google Cloud Platform, PostgreSQL, Docker, Conda

Languages:

German (Native), Russian (Native), English (Native)