Thomas Archer

Email: tarcher@scu.edu
Mobile: (203) 940-2338

EDUCATION

Santa Clara University - GPA: 3.8 — **Santa Clara, CA**
M.S. in Computer Science and Engineering — Mar. 2020 – Jun. 2021
B.S. in Computer Science, Minor in Mathematics — Sep. 2016 – Mar. 2020

WORK EXPERIENCE

Matterport — **Jun. 2019 – March 2020**
Data Specialist — *Sunnyvale, CA*
- Generated automated, interactive dashboards and visualizations to be utilized by top-level executives and measure success throughout the company.
- Applied machine learning algorithms to estimate customer lifetime value, segment customers by product usage behavior, predict churn, and produce time-series forecasts to evaluate growth metrics.

Global Citizens Initiative — **May 2016 – Jun. 2016**
Web Design and Marketing Intern — *Greenwich, CT*
- Updated website design and added functionality such as staff profiles and a donation feature.
- Managed social media and online marketing with Hootsuite to advertise and promote events.

Coditum/Summertech — **Jan. 2015 - May 2015**
Python and Java Instructor — *Purchase, NY*
- Taught comprehensive introduction to programming courses to students in Python, Java and C++.
- Created introductory programming curriculum to make learning more interactive and project-based.

PROJECTS

ApplyFeed
Django Application
- Created a Django web app that allows users to apply to large amounts of jobs quickly and easily. Utilizes Google Search API to find and aggregate recent jobs posts, the Lever API to collect job information, and the Python requests library along with mechanicalsoup to autofill the user's profile information into job-post pages.

Campscrape
Python Desktop Application
- Developed a Python program to secure fast-booking campground reservations by web-scraping online reservation services periodically to check for availability and automatically booking or notifying the user.

Coreef
HTML/CSS/Javascript Website
- Created a website to increase awareness of endangered coral reef ecosystems and generated visualizations of reef restoration efforts with data collected from restoration organizations.

Liver Patient Prediction Model
Jupyter Notebook
- Performed exploratory analysis of hospital liver patient data using Python visualization libraries to identify and visualize biological factors that contribute to liver disease and created a predictive machine learning model to analyze future cases of potential disease.

SKILLS

- **Languages:** Javascript, Python, HTML, CSS, Java, C++, SQL, PHP, Bash
- **Tools:** Django, NodeJS, MySQL, Git, Amazon Web Services, VS Code, Unix, MongoDB