Axel Sagundo

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EDUCATION

University of California, San Diego   **La Jolla, CA**
Bachelor of Science in Computer Science   *Graduation: Dec 2023*

Relevant Coursework: Database System Principles, Recommender Systems & Web Mining, Online Database Analytics Applications, Data Science in Practice, Advanced Data Structures

WORK EXPERIENCE

ITS ResNet Technician   **La Jolla, CA**
UC San Diego - Information Technology Services   *Jun 2022 - Sep 2023*

- Provided DUO identity management and Cisco networking support to a campus population of over 50,000 people, including students, staff, and faculty members
- Completed over 3,000 service tickets through a platform known as ServiceNow, identifying a wide range of issues from simple user errors to major network and application outages
- Collaborated with managers and campus business partners to update internal documentation and help reduce response times

PROJECTS

Crime Summary Natural Language Processing Bot | *Python, NLTK, Scikit-Learn, Beautiful Soup*   Github

- Developed a web scraping tool to download PDF files from UCSD's crime log website to convert into text files
- Labeled 2,341 crime log summaries as "interesting" or not to use as training data for an SVM classifier
- Tokenized summaries by stemming and removing stop words and TF-IDF vectorized them for feature extraction
- Trained a Linear Support Vector Machine Classifier to automatically classify new unseen summaries as "interesting" or not. Test set classification report yielded a 76% prediction accuracy

UCSD Featured Crime Logs Website | *JavaScript, NodeJS, ExpressJS, PostgreSQL, EJS*   Github | ucsdpd.com

- Designed and developed the frontend user interface which displays up-to-date "interesting" crime logs as determined by the trained SVM classifier
- Configured a remote Linux server to use Nginx as a reverse proxy for the ExpressJS backend server
- Implemented dynamic REST endpoints to display appropriate data
- Used PostgreSQL as the database to store all crime logs and to execute SQL queries based on user selection

Personal Website & Blog | *HTML, CSS, Hugo*   Github | axelsagundo.com

- Designed and developed a responsive personal website using semantic HTML, CSS, and JS
- Developed a custom theme using the Hugo Static Site Generator and deployed a separate blog website

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, SQL, HTML/CSS
Frameworks: Node.js, ExpressJS, Hugo
Developer Tools: Git
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, p5.js
Languages: English & Spanish