

Angela Peng

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EDUCATION

University of Michigan, Ann Arbor

Ann Arbor, MI

05/2024

Bachelor of Science in Engineering in Computer Science Engineering, Bachelor of Arts in Art & Design, Minor in Mathematics

GPA: 3.89/ 4.00; Honors: Dean's List, University Honors, James B. Angell Scholar, William J. Branstrom Freshman Prize

Relevant Courses: Data Structures and Algorithms, Machine Learning, Web Systems & Dev, Computer Vision, Computer Security, VR/AR Dev, Computer Architecture, Computer Organization, Linear Algebra, Discrete Math, Probabilities, Financial Math

SKILLS

- **Languages:** Python, C/C++, Java, C#, Go, JavaScript, SQL, HTML, CSS | English, Mandarin – All professional proficiency
- **Tools:** Git, Unity, Unreal Engine, Postman, PostgreSQL, Flask, Node, React/ JS, MacOS, AWS, AJAX, Angular, Jenkins
- **Others:** Data Modeling, Validation, Processing, Hadoop, MapReduce, API Design, Client-Server Protocol, Relational Databases

PROFESSIONAL EXPERIENCE

Data & Tech Consulting, Intern

PricewaterhouseCoopers

San Francisco, CA

06/2023 – 08/2023

- Annotated and reviewed 11K+ lines of **Python/ SQL** code & formulated into **Excel** for external audit review, leveraging **Snowflake** for streamlined client code accuracy, reducing expedited time required for SOX testing and compliance checks by one week
- Crafted four visualizations/ flowcharts of business and backend processes with **Visio & PPT** based on Python/ SQL code, after walkthroughs with client SWEs, amplifying business process understanding by ~90% for informed decisions & understanding
- Executed 43 business control tests, substantiating a 100% success rate in preventing unauthorized program and data access
- Initiated implementation of five key features, including filters and data patching, to internal **Power Apps** app, resulting in >95% deployment time reduction and improved responsiveness (previously timing out)

Web Developer, Intern

University of Michigan

Ann Arbor, MI

01/2022 – 05/2023

- Developed and maintained three frontend UIs using **WordPress, HTML, and CSS** for a user base of 22K+
- Spearheaded **Google Analytics** integration, offering insightful reports to clients and driving ~35% improvement in site visit

Backend Developer, Intern

General Electric

Cincinnati, OH

05/2022 – 08/2022

- Developed enterprise-level computer vision application to improve speed and quality of wind turbine inspections, reducing wind turbine blade operations and maintenance costs by up to 25%
- Designed and implemented **REST APIs** to streamline bulk insertion of images and annotations using **Python, Flask, AWS, and VS Code** that led to reduction of 300+ RESTful calls per inspection (yearly inspection scale up to 8K)
- Performed **SQL** query optimization and **JSON** data handling with a novel **PostgreSQL** Schema & elevated testing accuracy through developing standardized **Postman** collections, accelerating UI report generation by 90.18%, from over 1 minute down to 5 seconds
- Devised and executed exhaustive test cases, automated testing through **Jenkins**, achieving 82.51% test coverage

Software Development Engineer, Intern

Medpace

Cincinnati, OH

05/2021 – 08/2021

- Designed automation testing for Interactive Response Technology leveraging **Java, Selenium, Maven, and Eclipse**, achieving 100% protocol alignment and >99% reduction in validation time

PROJECTS

- **Instagram Clone (Python, Full stack):** Built interactive website with interactive server-side and client-side pages with Flask and React, utilizing REST API for user management, updates, comments, and likes. Employed SQL for data storage
- **Search Engine (Python):** Built interactive website with interactive server-side and client-side pages with Flask and React, utilizing REST API for user management, updates, comments, and likes. Employed SQL for data storage
- **Support Vector Machine Linear/Multiclass Classifier (Python):** Trained a SVM classifier using polynomial kernels to categorize text reviews into positive and negative attributes, optimized hyperparameters, and created multiple models employing one-vs-one approach, achieving accurate classification across 1 to 5 rating scale

AWARDS

- **National Silver Medal:** Scholastics Art and Writing Competition (2020) & National Spanish Examination (2020)
- **National First Place:** Congressional Art Competition (2020 & 2019)
- **Artwork Showcases:** artwork displayed in venues including US Capitol, Congressman's office, and South Korea World EXPO