

# Angela Peng

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## EDUCATION

### University of Michigan, Ann Arbor

Ann Arbor, MI

B.S.E. in Computer Science Engineering, B.A. in Art & Design, minor in Math

Expected May 2024

GPA: 3.89/ 4.0; Honors: Dean's List, University Honors, James B. Angell Scholar, William J. Branstrom Freshman Prize

Relevant Courses: Data Structure and Algorithms, Machine Learning, Web Systems, Computer Vision, Computer Security, VR/ AR Development, Computer Architecture, Linear Algebra, Discrete Math, Probabilities

## PROFESSIONAL EXPERIENCE

### PricewaterhouseCoopers (PwC)

San Francisco, CA

Data & Tech Consulting Intern (Cyber, Risk & Regulatory)

Jun 2023 – Aug 2023

- Annotated 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
- 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 for informed decisions
- Executed 43 business control tests with 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)

### University of Michigan College of Engineering

Ann Arbor, MI

Grader: EECS 203 Discrete Math & EECS 370 Intro to Computer Architecture

Jan 2022 – Dec 2023

- Graded homework for 1.8+ students per semester, providing timely and constructive feedback

Web Development Intern

Jan 2022 – May 2023

- Built 3 websites (user base ~22k+) and maintained an umbrella of 8 sites using **WordPress, HTML, JS, and CSS**
- Spearheaded **Google Analytic 4 & Google Tag Manager** integration to track user data, providing detailed reports and suggesting program addition and page rebuilds to clients, resulting in ~35% improvement in site visit

### General Electric (GE Digital)

Cincinnati, OH

Backend Development Intern

May 2022 – Aug 2022

- 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)
- Optimized **SQL** query and **JSON** data handling with a novel **PostgreSQL** Schema & standardized Postman collections to improve testing accuracy, accelerating report generation by 90.18%, from > 1 min down to 5 sec
- Devised and executed exhaustive test cases, automated testing through **Jenkins**, achieving 82.51% test coverage

### Medpace Holdings, Inc.

Cincinnati, OH

Software Engineering Intern

May 2021 – Aug 2021

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

## SELECTED PROJECTS

**Instagram Clone (Python, Full Stack):** Built website containing interactive server-side and client-side pages with Flask, React, Jinja, HTML, and CSS, utilizing REST API for user, content, and post management, and SQLite for data storage.

**Search Engine (Python):** Developed scalable search engine, leveraging page rank, tf-idf, and Hadoop's MapReduce for parallel data processing. Implemented script testing and index server with React for efficient indexing and access.

**Support Vector Machine Linear/Multiclass Classifier (Python):** Trained a Support Vector Machine classifier using scikit-learn, employing polynomial kernels to categorize text reviews into positive and negative attributes. Performed feature extraction, hyperparameter tuning, AUROC optimization, and exploration of asymmetric cost functions.

## TECHNICAL SKILLS & OTHERS

**Languages:** Python, Java, C/C++, C#, Go, JavaScript, SQL, HTML, CSS, MATLAB | English, Mandarin

**Technologies/ Tools:** Git, Unity, Unreal Engine, Flask, AJAX, AWS, React/ JS, Angular, Jenkins, PostgreSQL, Node, MacOS, WordPress, Eclipse, Maven, Kibana, New Relic, Rally, Postman, PostgreSQL, Figma, Pr, Ps, Ai

**Interests:** Painting (Scholastics Art and Writing Competition National Silver Medal, Congressional Art Competition First Place, artworks displayed in US Capitol, South Korea World EXPO), Piano (10 years), Teaching, Singing