

Brandon T. Pae

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EDUCATION

Columbia University - GPA: 4.02

New York, NY | May 2026

Bachelor of Science, Major in Computer Science & Minor in Entrepreneurship

- Relevant Coursework - [Advanced Programming in C](#), Artificial Intelligence, Data Structures in Java, Discrete Math, Linear Algebra, Multivariable Calculus, Operating Systems, UI Design

Horace Mann High School - GPA: 3.97 UW, 4.48 W

Bronx, NY | Jun 2022

- Relevant Test Scores - SAT: 1570, SAT 2 Math II: 800, AP Calculus BC: 5

WORK EXPERIENCE

FluidityIQ, Software Engineering Intern

New York, NY | June 2024 – Present

- Evaluated vectorizer models, including GTE and Bert, on patent claims; wrote unit tests and multi-threading in Python. Implemented code in production using Azure Functions and Artifacts
- Used Langsmith with Gemini to build a custom patent dataset for training vectorizers

Artaic, Software Engineering Intern

New York, NY | Feb 2023 – Dec 2023

- Implemented a YOLO classification [model](#) to identify tiles by color and texture for Artaic's mosaics. Collected and annotated tile images using Roboflow
- Created an interactive map of Artaic's mosaic installations using the Google Maps API and WP Go Maps. Debugged errors in Artaic's web server and researched mosaic information for their database

Capco, Software Engineering Intern

New York, NY | Jun 2023 – Aug 2023

- Improved the backend code for Commerce Bank's website; debugged their RESTful APIs for the user permissions service and created JSON test payloads for admin approval items, using their APIs and Db2 SQL
- Wrote a Python script to automate the test data creation process and presented it to 30+ senior executives and developers in Capco and Commerce
- Implemented k-means clustering to group users for the stock recommendation project. Also fixed JSON errors to enable API calls between Adobe Marketo and OneTrust for the consent & preference project

Arrow Electronics, Machine Learning Intern

Cambridge, MA & Remote | Aug 2021 – Aug 2022

- Implemented eight machine learning (ML) models with AWS to forecast the price of raw minerals needed for electronics. Ran over 200 experiments and analyzed the results using Optuna and ClearML
- Developed four ML [models](#) to predict the end life of electronics parts. Optimized the best model using Talos and presented results to 20+ executives and salespeople in Arrow. Increased the accuracy of their predictive products, improving customer experience and sales

EXTRACURRICULAR ACTIVITIES

Columbia Organization of Rising Entrepreneurs, Almajors Director

New York, NY | Sep 2022 – Present

- Met with 12 student founders to identify the best growth strategies for their companies; connected them with mentors each week in the Columbia Startup Lab (CSL). Also created Python [scripts](#) to automate mentor scheduling logistics

Columbia Daily Spectator (CDS), Head of Product

New York, NY | Sep 2022 – May 2024

- Ideated and designed new features for Spectator's products, primarily CULPA (Columbia's website for rating professors and courses). Used Figma to design the flow for making a 4-year plan, uploading syllabi & quotes, and filtering reviews by tags

PROJECTS

- **BeetCode:** Created an [assistant](#) for coding interview prep, using React, Flask, GPT-4o, MongoDB, and Supabase. Provided hints for LeetCode problems for 200+ users
- **Secra:** Developed a scheduling [tool](#) to organize a student's meetings, using the Google Calendar API and MySQL. Successfully completed the LionLaunch Incubator and Columbia Start Me Up Bootcamp

SKILLS AND INTERESTS

Programming Languages: Python, Java, R, Scala, C, C++, SQL, JS, CSS, HTML, PHP

Libraries and Tools: AWS, Azure, Databricks, Docker, PyTorch, Tensorflow, Hugging Face, React, React Native, Flask, MySQL, MongoDB, Supabase

Interests: Tennis, Weightlifting, Traveling, Video Games, Korean Dramas