

# Brandon T. Pae

(917)-565-0084 | [bt2109@columbia.edu](mailto:bt2109@columbia.edu) | [brandontpae.com](http://brandontpae.com) | [linkedin.com/in/brandon-pae](https://linkedin.com/in/brandon-pae)

## EDUCATION

### Columbia University - GPA: 3.99

New York, NY | May 2026

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

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

### 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 – Sep 2024

- Evaluated vectorizer models for patent claims and deployed to production using Azure CI/CD; wrote unit and integration tests with Mockito for the search API, fixing 75% of bugs and reducing latency by 6x
- Configured Langsmith to build a patent dataset, evaluated Gemini responses, and implemented a factory design for LLM swapping; enabled multi-user functionality for the chat API

### Artaic, Software Engineering Intern

New York, NY | Feb 2023 – Dec 2023

- Created a YOLO [model](#) with Roboflow to classify mosaic tiles with 91% accuracy. Also built an interactive map of Artaic's mosaic installations using Google Maps API and WP Go Maps for company website

### Capco, Software Engineering Intern

New York, NY | Jun 2023 – Aug 2023

- Improved backend code for Commerce Bank's website by fixing 66% of bugs with their entitlements API and creating JSON test payloads with SQL and Python; presented to 30+ senior executives and developers
- Performed k-means clustering to group users for the stock recommendation project; fixed 50% of JSON errors for the consent & preference project to enable API calls between Adobe Marketo and OneTrust

### 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 200+ experiments and used Optuna and ClearML to identify the optimal model
- Developed four ML [models](#) using Python and Talos to better predict the end life of electronics parts; resulted in a 68% increase in accuracy and presented findings to 20+ Arrow executives and the sales team

## EXTRACURRICULAR ACTIVITIES

### Columbia University, User Interface Design TA

New York, NY | Jan 2025 – Present

- Graded weekly homework and projects, held office hours, and aided in instruction (600+ students)

### Columbia Organization of Rising Entrepreneurs (CORE), Almaworks Director

New York, NY | Sep 2022 – Dec 2024

- Directed the Almaworks Accelerator in the Columbia Startup Lab (CSL); coordinated weekly mentorship for 30+ Columbia founders and organized five Demo Day events with VC investors from Bain Capital Ventures
- Led Partnerships in the CORE executive board, enabling collaboration between Columbia and Cornell founders, organizing speaker events with Microsoft and Perplexity, and inspiring new students to join CORE

### Columbia Daily Spectator, Head of Product

New York, NY | Sep 2022 – May 2024

- Led Spectator's product division; ideated and designed new features for CULPA (Columbia's website for rating professors and courses), including a 4-year course plan, course syllabi & quotes, and review tag filtering
- Collaborated with the Engineering and Engagement teams to implement and promote the new CULPA features, resulting in a 18% increase for website visits

## PROJECTS

- **BeetCode:** Developed an [assistant](#) for coding interview prep, using React, Flask, GPT-4o, MongoDB, and Supabase. Provided hints for LeetCode problems for 200+ users
- **Secra:** Built a scheduling [tool](#) to organize student meetings, using AWS, Google Calendar API, and MySQL

## SKILLS

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

**Libraries and Tools:** Databricks, Docker, Flask, Git, Haystack, Langchain, PyTorch, React, TensorFlow

**Cloud and Databases:** AWS, Azure, Google Cloud, Milvus, MongoDB, OpenSearch, PostgreSQL