

Brandon T. Pae

Englewood Cliffs, NJ | (917) 565-0084 | btp2109@columbia.edu | linkedin.com/in/brandon-pae | brandontpae.com

Education

Columbia University - GPA: 3.98

New York, NY | May 2026

Bachelor of Science in Computer Science, Minor in Entrepreneurship

- Relevant Coursework - Operating Systems, Advanced Programming in C, VR/AR (Unity), Artificial Intelligence, Natural Language Processing, Data Structures in Java, Parallel Optimization for Robotics

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

Bronx, NY | Jun 2022

Work Experience

Boston Consulting Group (BCG)

Boston, MA | June 2025 – Present

Summer Associate

- Built dynamic Excel models and automated workflows to track real-time financial progress on a large industrial transformation project, identifying significant EBITDA variance
- Presented quantified results to BCG and client leaders, enabling informed decision-making

FluidityIQ

New York, NY | June 2024 – Sep 2024

Software Engineering Intern

- Built and deployed a vectorizer model for patent claims using Azure CI/CD; reduced search API latency by 6x and fixed 75% of bugs with Mockito unit/integration tests
- Developed summarizer agent with Langchain, integrated LLM swapping and multi-user chat functionality

Capco

New York, NY | Jun 2023 – Aug 2023

Software Engineering Intern

- Improved backend for a major U.S. bank's site by fixing 66% of entitlements API bugs and creating JSON test payloads with SQL/Python; presented work to 30+ senior executives
- Used k-means for stock user clustering and enabled API calls between Marketo and OneTrust

Arrow Electronics

Cambridge, MA | Aug 2021 – Aug 2022

Machine Learning Intern

- Implemented 8 ML models with AWS to forecast raw mineral prices; ran 200+ experiments using Optuna and ClearML to optimize accuracy and performance
- Boosted electronics lifecycle prediction accuracy by 68% and presented results to 20+ executives

Leadership Experience

Columbia Engineering

New York, NY | Jan 2025 – May 2025

Teaching Assistant

- Graded homework and projects for User Interface Design (COMS 4170W), held weekly office hours, and helped 600+ students learn full-stack tools like Flask and jQuery

Columbia Organization of Rising Entrepreneurs (CORE)

New York, NY | Sep 2022 – Dec 2024

Director

- Directed the Almaxworks Accelerator at Columbia Startup Lab, coordinating weekly mentorship for 30+ founders and organizing five Demo Days with Bain Capital VC investors

Columbia Daily Spectator

New York, NY | Sep 2022 – May 2024

Head of Product

- Led Spectator's product team to design and launch new CULPA features (4-year course planner, syllabi uploads, review filters), increasing site traffic by 18% through close collaboration with Engineering

Projects

- **A2R Lab:** Optimized memory-efficient TinyMPC software in C/C++ for Crazyflie drones, enabling integration with CrazySwarm2 (ROS 2)
- **BeetCode:** Built a coding interview prep assistant using React, Flask, MongoDB, and Supabase, helping 200+ users with LeetCode guidance

Skills

- **Languages:** Python, Java, C, C++, SQL, JS, HTML/CSS, PHP, R
- **Coding Tools:** Git, Langchain, Docker, AWS, Azure, PostgreSQL, MongoDB, Google Cloud
- **Design Tools:** Figma, Adobe Illustrator, CAD (Onshape, SolidWorks)