

Charles Tang

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EDUCATION

Brown University

Aug. 2023 – May 2027

Bachelor of Science in Applied Mathematics & Computer Science

Providence, RI

- GPA: 4.0/4.0; Full Stack @ Brown, Society of Asian Scientists and Engineers, Badminton Team
- Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Data Science, Deep Learning

TECHNICAL SKILLS

Technical Skills: Software development, Cloud, Math modeling, Deep learning, Optimization, Data science

Languages: Python, Javascript, Java, HTML/CSS, Excel, LaTeX, MySQL/Postgres, MATLAB

Frameworks: React.js, Django, Bootstrap, TensorFlow, LangChain, REST APIs

Developer Tools: Docker, Amazon Web Services, Git, GitHub, Postman, VS Code, Node.js, Bash, Linux

EXPERIENCE

Cisco Meraki

Jun. 2025 – Aug. 2025

Software Engineering Intern

San Francisco, CA

- Incoming for Summer of 2025

IOMICS Corporation

Dec. 2023 – Nov. 2024

Software Engineering Intern

Cambridge, MA

- Developed a chatbot app with **LangChain**, **Django**, **Postgres**, and **Docker** deployed to drug discovery platform
- Tested app across medical Q/A (95% accurate) and iterated through local LLMs, RAG, and managed APIs
- Increased brain injury detection accuracy by 10% by delivering computer vision recommendations to specialists
- Optimized feature selection software by 80% by profiling (Scalene) and implementing **parallel processing** (sklearn)

BJ's Wholesale Club

Jun. 2024 – Aug. 2024

Data Science Intern

Marlborough, MA

- Developed **REST API** to simulate millions of forklift routes (**Python/Pandas**) to streamline picking/delivery
- Optimized forklift pick path and warehouse inventory allocation by 20% with an **annual ROI of \$851K**
- Implemented **numerical optimization** models (integer/linear programming) with Google OR Tools and PyVRP
- Pioneered robotic forklift deployment initiatives (annual ROI of \$331K) in East Coast distribution centers
- Designed Excel dashboard for 200+ clubs nationwide on performance insights on Tally (BJ's flagship robot)

PROJECTS

FinnAI 🤖 | *React, Python, JavaScript, Ant-D*

2024

- Created a chatbot app (React + Ant-D) for writing financial reports and processing market data
- Led API (Python) development (team of 4) connecting data from Yahoo Finance and locally hosted LLM

WPI-Roadmap 🤖 | *Firebase, Express, React + Redux, Node, JavaScript, Ant-D*

2024

- Led front-end development (React) of academic advising app and integrated with FirebaseAuth and hosting
- 2024 GoatHacks (HackWPI) Winning Team (1st/50+ teams), now used by 50+ users

Digital Sign-in/out System 🤖 | *Firebase, Azure, MySQL, Express, React + Redux, Node, Python*

2023

- Led hardware and database integration (team of 4) for school sign-in system with MySQL, Python, and React
- First-ever student-created app used by 100+ students at WPI in collaboration with WPI InfoSec/NetOps team

LEADERSHIP

Full Stack @ Brown

Aug. 2024 – Dec. 2024

Project Manager

Providence, RI

- Led team of 15 developers to create **Django (Python)** app for NECYSC, serving 500+ campers and 100+ staff
- Coordinated weekly team standups and served as a liaison between developers and the client organization
- Set up CI/CD pipeline with GitHub Actions to automate testing, build, and deployment onto **AWS**