Thomas Caneday
San Diego, CA | www.github.com/ThomasCaneday

EDUCATION

Georgia Institute of Technology *Expected August 2027*
Master of Science, Computer Science
- Significant Coursework: Machine Learning, Machine Learning for Trading

University of San Diego *May 2025*
Bachelor's Degree, Computer Science *GPA: 3.44*
- Significant Coursework**:** Algorithms, Data Science Foundations, Operating Systems, Engineering Probability & Statistics, Object-Oriented Programming, Introduction to AI, User-Centered Design
- Dean's List First Honors (Fall 2024 and Spring 2025), DiamondHacks Best Duo Hack, TECh Startup Finalist

SKILLS

- **Languages/Tools:** C/C++, Python, Java, JavaScript/Typescript, HTML/CSS, Next.js, React, Tailwind CSS, Git, Linux, Node, pandas, NumPy, scikit-learn, TensorFlow, Keras, Microsoft Teams, SonarQube

EXPERIENCE

Software Engineer Intern *June 2025 – September 2025*
Peninsula AI *San Diego, CA*
- Developed and integrated **scalable React UI components** to improve search functionality, enhancing user experience, efficiency, and front-end performance when navigating large legal databases.
- Optimized legal summary generation by engineering efficient **OpenAI API** prompts, tuning model parameters (temperature, top_p), and increasing token limits, resulting in clearer, more reliable outputs.
- Implemented a user activity logging system with **FastAPI** and a **Docker MySQL database**, enabling data-driven insights into platform usage and user behavior while utilizing **SonarQube** for code analysis.

Founding Software Engineer *January 2025 - Present*
Oink Investments, LLC *San Diego, CA*
- Engineering Oink's round-up investing MVP by utilizing **Next.js** and **Node/TypeScript** frontend with **Plaid's API** for bank auth and a spare-change engine with **Coinbase Advanced Trade Python API** that automates **OAuth2** and triggers auto-investments when bank transaction round-ups accumulate to a user-set threshold.
- **Awarded $6,000 in non-dilutive prize funding** by pitching Oink's MVP, winning 2nd Place and the People's Choice Award at the University of San Diego's Torero Entrepreneurship Challenge, which led to acceptance into **Tampa Bay Wave**, a competitive FinTech accelerator program.

Computer Science Tutor *January 2025 - May 2025*
University of San Diego *San Diego, CA*
- Led discussions on debugging techniques, object-oriented programming, memory management, data structures, and system design in **Python, C, C++, and Java programming**, assisting over **30 Computer Science students**.

Web Developer *May 2023 - Present*
Self-Employed *San Diego, CA*
- Designing high-performance web applications for clients using **React, Tailwind CSS, and HTML**, applying data analytics and search engine optimization with **Google Analytics** and **Lighthouse**, providing actionable quantitative insights for clients on an ongoing basis, resulting in over **$2,000 in revenue** from negotiating contracts and recurring subscriptions with **Stripe**.

PROJECTS

GTRI Senior Capstone Software Engineer *C, Python* *September 2024 - May 2025*
- Engineered an ad-hoc Wi-Fi mesh and TCP-WebSocket protocol connecting three Raspberry Pi buoys to shore, delivering consistent **sub-second end-to-end latency and less than 1% packet loss at 100 meters** over water.
- Trained & deployed a lightweight helicopter classification algorithm by leveraging **Python and TensorFlow/Keras** to generate Mel-spectrograms and power a Convolutional Neural Network that flags CH-47 Chinook and AH-64 Apache with **greater than 95% accuracy**.

Options Pricing Model *C++* *August 2024 - September 2024*
- **Developed a C++17 CLI tool** that interactively prices European call and put options, prompting users for market inputs and simulating geometric-Brownian price paths with a configurable **Monte Carlo engine** to estimate option values, delivering a full prototype in **one month**.