Michael Long

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EDUCATION

Northeastern University   **September 2021 – April 2025**
B.S. in Computer Science and Business Administration, **3.9/4.0 GPA**   *Boston, MA*

Relevant Coursework: Algorithms and Data Structures, Object-Oriented Design, Networks and Distributed Systems, Database Design, Data Science, Machine Learning, Artificial Intelligence, Software Engineering, Mobile Development

SKILLS

Languages: TypeScript, JavaScript, Python, Java, Kotlin, Swift, HTML, CSS, SQL

Tools: React, Node.js, Next.js, Express.js, Django, Tailwind CSS, GraphQL, MySQL, PostgreSQL, SQLite, MongoDB, Jetpack Compose, SwiftUI, Amazon Web Services (EC2, S3, Route 53), Docker, Jenkins, Git, Figma, Jira, Scrum, Agile

EXPERIENCE

Hometap | *Python, Django, JavaScript, React, GraphQL, Postgres*   **January 2024 – June 2024**
Software Engineering Intern   *Boston, MA*

- Built workflow used by **35+ Hometap staff** to order, track, and cancel **100+ home appraisals** per day, developing **third-party API integration** using **GraphQL** queries & mutations connected to **React** forms & tables
- Fixed internal database obfuscation tool by resolving **Postgres** to **pandas** JSON serialization issues in **Python** scripts, securing **240,000+ rows** of sensitive PII, financial data, and property details for **60,000+ homeowners**
- Developed maintenance mode system **now used each sprint**, creating **WebSocket channel** and **REST endpoint** to enable **Django** backend to trigger **React** overlay component on user screens during deployment downtime

Wood Mackenzie | *TypeScript, React, Node.js, Python, AWS*   **January 2023 – August 2023**
Software Engineering Intern   *Boston, MA*

- Built new "C2MD" data curation app **from inception to production deployment**, leading development of **React** UI and **Node** API, automating CI/CD with **Jenkins** pipelines, and provisioning infrastructure using **AWS CDK**
- Implemented **5x API latency reduction** by identifying over-fetching problem, designing new endpoints with efficient filtering capabilities, and writing **Jira** tickets to collaborate with UK-based data team to rewrite endpoints
- Researched and advocated for use of 'react-hook-form' library, presenting use case and convincing architecture and senior engineers, **delivering 20% codebase reduction** after implementation
- Ensured **100% test coverage** through test suite of unit & automated browser tests with Jest, React Testing Library

Wayland Student-Athlete | www.waylandstudentathlete.com   **May 2020 – September 2021**
Co-Founder, Technical Lead   *Wayland, MA*

- Launched business connecting high-school students to families with odd job requests, **leading team of 8** in scaling business to generate **$78,000+ revenue** and **donate $2,000+** to non-profit organizations
- Facilitated **900+ jobs** and served **250+ users** across **8+ towns** by building website with job request form, email notification system, and full admin dashboard using **TypeScript**, **Next.js**, **React**, **Tailwind CSS**, and **SQLite**

PROJECTS

Soshi   **November 2024**

- Collaborated with team of 4 to create an **AI-driven Twitter assistant** that autonomously browses user feeds and generates replies to highest potential tweets for enhancing audience engagement and follower growth
- Achieved **Best Overall** at **Y Combinator x Supabase AI Hackathon** in SF, competing against 50 teams, 193 people
- Built full-stack web application using **TypeScript**, **Next.js**, **React**, **Python**, **Postgres**, integrating **Browserbase** and **Playwright** for autonomous browsing capabilities and **Anthropic** and **Twitter APIs** for content generation

Shoots   **October 2024**

- Developed **iOS** (**Swift**) and **Android** (**Kotlin**) mobile app allowing users to stake money against friends and bet on themselves for motivation and accountability to reduce screen time