

HENRY LODGE

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EDUCATION

Northeastern University | Boston, MA

Sept. 2024 - Present

B.S. in Computer Science, Minor in Management Information Systems | GPA: 3.65

Boston, MA

- **Courses:** Algorithms & Data Structures, Object-Oriented Design, Discrete Structures, Programming in C++, Foundations of Computer Science, Math Reasoning, Foundations of Data Science, Foundations of Cybersecurity
- **Honors & Activities:** Dean's List, Northeastern Blockchain Organization, Rev, BUB Hackathon 2025 3rd Place, HackBeanpot 2026 2nd Place

TECHNICAL SKILLS

Languages: TypeScript, C++20, Python, Java, JavaScript, Solidity, SQL (PostgreSQL), HTML, CSS

Frameworks & Runtimes: React, Svelte, Node.js, React Native, Tailwind CSS

Tools & Platforms: Git, Docker, AWS (EC2, S3, CloudFront), Firebase, Firestore, npm, Vite, VS Code

Libraries & Data: Ethers.js, pandas, NumPy, Matplotlib, TensorFlow

EXPERIENCE

Incoming Software Developer Co-op

Sept. 2026 - Dec. 2026

IBM

Austin, TX

Technical Associate | Tech Team

Sept. 2025 - Present

NEU Blockchain Organization

Boston, MA

- Collaborated with a team of **5+ developers** to develop and maintain the NEU Blockchain Organization's website, improving club reach and accessibility to club resources and events for **100+ people**
- Designed and **led Solidity smart contract development workshops for 20+ attendees**, covering topics such as contract architecture, deployment workflows, and on-chain interaction patterns
- Created a Solidity starter guide and development environment setup documentation, **reducing onboarding time from 2 weeks to 3 days**

PROJECTS

yi3ld | *TypeScript, React Native, Firebase, Ethers.js, AAVE, Kamino, XRPL, Expo*

Feb. 2026 - Feb. 2026

- Developed a **DeFi mobile banking application** enabling users to earn **4-10% APY** on their checking account through automated stablecoin lending on **AAVE and Kamino liquidity pools**
- Implemented **end-to-end wallet infrastructure** to generate key pairs, encrypt private keys for secure storage and use, and manage **multi-account architecture** for **multi-wallet users**
- Integrated smart contracts on **Base Sepolia**, executing **ERC-20 approvals** and supply transactions with real-time APY calculations, syncing on-chain token balances to Firebase

VSWallet | *TypeScript, Svelte, Ethers.js, Node.js, VS Code API, Vite*

Oct. 2025 - Jan. 2026

- Built and maintain a **self-custodial Ethereum wallet** as a native VS Code extension with **30+ downloads**
- Engineered **secure wallet creation** and key management systems for **EVM compatible** networks with **Ethers.js**
- Developed a Svelte-based sidebar UI rendering wallet state updates in **less than 100ms** through optimized VS Code API integration
- Architected a **modular provider system** reducing codebase complexity by **40%** and enabling rapid integration of new blockchain networks

LostChain | *TypeScript, Next.js, Solidity, Wagmi*

Nov. 2025 - Nov. 2025

- Developed a decentralized lost-and-found platform processing **75+ item records** with **Ethereum smart contracts**
- Designed and deployed **gas-optimized** Solidity contracts to store and query lost and found reports on-chain
- Integrated **Keccak-256** cryptographic hashing with **A2P SMS** notifications to connect users with recovered items
- **Awarded 3rd place at Boston University Blockchain Hackathon 2025**

Interests: Crypto | MLB Baseball | Motorcycles | NFL Football | Fishing | Video Games