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Education

TUFTS UNIVERSITY - MEDFORD, MA **2022 - PRESENT**

- Bachelor of Science, Major in Computer Science, Minor in Cognitive and Brain Science
- GPA: 3.97, Dean's List (Fall 2022, Spring 2023, Fall 2023).

Experience

THE LEGACY PROJECT @ TUFTS JUMBOCODE - FULL STACK DEVELOPER **FALL 2023 - PRESENT**

- Crafted robust backend API routes to streamline the enrollment process for new chapters, a pivotal contribution to the expansion of The Legacy Project across multiple university chapters.
- Migrated codebase to NextJS 13, enhancing performance and user experience.
- Restructured role hierarchy for seamless expansion, laying the groundwork for organic growth.

STEALTH STARTUP - SOFTWARE ENGINEER INTERN **JUNE 2023 - PRESENT**

- Extended Google Maps APIs using Python, contributing to the development of a full-stack application aimed at generating dynamic and populated maps.
- Orchestrated the establishment and management of a robust datastore for efficient handling of objects/assets.
- Engineered a unified catalog to normalize varied spatial data, real estate plans, and property assets, empowering property managers, real estate professionals, and owners to seamlessly manage both digital and physical assets.

FIRSTROOT INC - COMPLIANCE CONSULTANT **SUMMER 2021**

- Led the exploration of COPPA Compliance for FirstRoot's Participatory Budgeting platform, creating clear and concise scoping for workflows designed to create an effective user experience.
- Developed essential extensions to the FirstRoot data architecture to ensure COPPA compliance, incorporating input from the development team through iterative presentations.
- Learned core Agile principles and participated in SAFe® development practices, including Sprint planning, Daily Stand Up (DSUs), Sprint reviews, pair programming, and automated testing in a CI/CD pipeline.

COMPR[CH]ESS - INDEPENDENT PROJECT

- Engineered an innovative compression algorithm that seamlessly blends chess engines (Stockfish), machine learning, and Huffman Coding to dynamically encode chess games at an average 85% compression rate.
- Implemented TensorFlow (Keras) to construct predictive models for player moves based on rating, leveraging the generated probabilities to efficiently compress PGNs of players at specific rating ranges.

RELEVANT SKILLS

- Google Cloud Platform: Cloud Digital Leader
- Programming Languages: Python, Java, C++, Javascript, Typescript
- Full-Stack Development: React.js, Tailwind, Next.js, Prisma, Zod, Flask, MongoDB