

LUKE BREVOORT

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EDUCATION

Stevens Institute of Technology	Hoboken, NJ
Bachelor of Science, Computer Science, Electrical Engineering Minor	Sep 2024 – May 2028
- GPA: 3.96 - Awards: Edwin A. Stevens Scholarship, Dean's List - Coursework: Data Structures and Algorithms, Computer Architecture, Systems Programming, Linear Algebra, Certified Ethical Hacking	

EXPERIENCE

Software Engineering Intern	Jun 2026 – Present
Mytra	<i>Brisbane, CA</i>
- Building Mytra Oracle, an agentic diagnostics platform that combines Splunk telemetry, PostgreSQL data, Kubernetes logs, and live warehouse data to investigate production issues - Designed and implemented a local open-source model deployment for air-gapped Fortune 500 customer environments, enabling on-site debugging without external model APIs or network access - Developing a cloud MCP-connected analysis system that uses historical operational data to identify preventive-engineering metrics and has diagnosed multiple warehouse-system issues	
Project Lead	Oct 2025 – Present
Stevens Blueprint	<i>Hoboken, NJ</i>
- Promoted from Developer to Project Lead for Fall 2026 to manage a student engineering team, lead nonprofit client communication, scope product requirements, and oversee delivery - Developed the HSDS Transformer, a Python and Pydantic application that converts nonprofit service-directory data into the Open Referral HSDS standard - Built schema-mapping and validation pipelines that transform inconsistent health and human-services records into standardized, interoperable data	
Research Intern	Dec 2024 – Aug 2025
Natural Language Processing Lab at Stevens	<i>Hoboken, NJ</i>
- Served as the lab's only undergraduate on a team of approximately 12 Ph.D. researchers developing tools for multilingual news analysis - Built a full-stack research prototype with Next.js and TypeScript, integrating the interface with multilingual datasets, backend services, and a language-model pipeline - Authored more than 5,000 lines of application code and supported a small-scale semantic evaluation of language models identifying equivalent phrases across languages	

PROJECTS

AI Canvas
- Built and deployed an AI-powered whiteboard on my personal website using TypeScript, Next.js, OpenAI, and Excalidraw, converting natural-language requests into editable diagrams through typed canvas operations - Implemented semantic validation, approval gates, request limits, persistent feedback memory, and undoable transactions to safely apply model-generated changes
MALCOM
- Building a Python-based remote execution control plane for managing persistent coding-agent sessions across Codex, Cursor, OpenCode, and terminal environments - Designed a session registry, isolated workspace management, logging, and constrained GitHub, Notion, and Linear adapters so interrupted agent work can be inspected, recovered, and resumed

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, C++, Go, SQL
Frameworks: React, Next.js, FastAPI, Node.js, Pydantic, Tailwind CSS
Infrastructure & Tools: Kubernetes, Docker, AWS, Vercel, PostgreSQL, Redis, Git, GitHub Actions, MCP