

ZACHARY DECKER

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EDUCATION

Cornell Tech (Cornell University) , New York, NY	May 2025
Master of Engineering in Computer Science GPA: 4.0	
Relevant Coursework: Startup Studio, Deep Learning, Applied Machine Learning, Natural Language Processing	
Rose-Hulman Institute of Technology , Terre Haute, IN	May 2024
Bachelor of Science in Computer Science and Software Engineering GPA: 3.71	
Relevant Coursework: Software Design, Generative AI, Product Management, Web Development, Database Systems	

TECHNICAL SKILLS

Tools:	Microsoft Office Suite, Google Sheets
Languages:	Python, C++, JavaScript, SQL, HTML/CSS
OS:	Windows, Linux, MacOS

EXPERIENCE

Scale AI, Strategic Projects Lead , New York City, NY	Summer 2025
Generative AI start-up working in delivering agentic data to top AI firms	
<ul style="list-style-type: none">Led team sprints improving pipeline data quality by 20% and reducing handling time by 30%Integrated quickly with agentic coding data delivery team, providing insight into creating efficient full-trace trajectories	
DEKA, Software Engineering Intern , Manchester, NH	Fall 2022 – Spring 2024
American engineering and innovation firm founded by inventor Dean Kamen	
<ul style="list-style-type: none">Researched and experimented with terrain mapping algorithms for a wheeled autonomous vehicle in PythonCollaborated across teams to integrate the proposed algorithm while maintaining reliability of production code in C++ and ROSImproved path planning consistency and expanded the vehicle's ability to traverse more complex environmentsWrote detailed documentation explaining the updated algorithm to technical and non-technical stakeholders	
AON Devices, Machine Learning Intern , Irvine, CA	Summer 2022
Develops super low-power, high-accuracy edge AI solutions	
<ul style="list-style-type: none">Wrote scripts and developed tools in Python for pre-processing large datasets of audio samples to facilitate model trainingGenerated research reports on state-of-the-art low-power transformer models	

PROJECTS

PolyRook, Cornell Tech Startup Award Winner (JavaScript, Hugging Face)	Winter 2024 – Spring 2025
Startup Studio project developing AI 3D environment generator built on open-source JavaScript voxel editors	
<ul style="list-style-type: none">Built out go-to-market plans, pitched to VCs, and presented idea to hundreds at Cornell Tech Studio DayImplemented state-of-the-art 3D generation pipelines to create consistent environments from a promptLaunched modern and responsive frontend supporting 100+ active users	
Pitch Room	Fall 2024
Product Studio project developing AI email extension to improve venture capital analysts' workflow	
<ul style="list-style-type: none">Worked with MBAs to develop go-to-market strategy and market sizingBuilt prototype RAG pipeline for collecting relevant background information on early-stage startups	
Course Registration Chatbot (Python, LangChain, Node.js)	Spring 2024
Developed Retrieval Augmented Generation (RAG) pipeline for pretrained LLMs to provide accurate school-specific information.	
<ul style="list-style-type: none">Built a LangChain-based retrieval chain over vectorized advisor notes (e.g. Pinecone/FAISS), achieving >90% precision on document lookupFine-tuned a GPT-3.5 Turbo model on registrar transcripts and advisor FAQs, improving response accuracy on course prerequisites and policiesCreated event tracking, logging system, and a user feedback portal to capture patterns for continuous improvement	
"Organize My Life" File Organization App (React Native, AWS)	Fall 2023 – Spring 2024
Senior project building a cross-platform file management solution for iOS and Android	
<ul style="list-style-type: none">Managed complete product lifecycle from initial architecture to production-ready applicationImplemented CI/CD pipelines using GitHub Actions for automated testing and deployment	