

Milo Knowles

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WORK EXPERIENCE

Roebling – <i>AI-powered development stack for industrial infrastructure</i> <i>Co-Founder & Lead Software Engineer</i>	June 2025 – Present Remote
<ul style="list-style-type: none">• Responsible for product development, platform architecture, and managing a team of 3 software engineers.• Stack: React/Typescript, Tailwind, Python/FastAPI, PostgreSQL, Supabase, Vercel, Langchain, PyTorch	
Synonym – <i>Biomanufacturing infrastructure and scale-up support</i> <i>Founding Software Engineer</i>	April 2024 - June 2025 Remote
<ul style="list-style-type: none">• Architected and built Scaler, a process simulation and techno-economic assessment tool for biomanufacturing.• Led product from idea to first revenue. Delivered 4 projects to a F500 customer, made key engineering hires, and ran investor demos. Helped enable a Series A and spinout of the product as “Roebling” (see above).• Stack: React/Typescript/Next.js, Python/FastAPI, PostgreSQL, Supabase, Vercel	
Food for the Future – <i>Carbon crediting for sustainable food</i> <i>Co-Founder & CTO</i>	Jan 2022 – Dec 2023 Remote
<ul style="list-style-type: none">• Built a platform for tracking food emissions based on purchasing data and calculating user carbon footprints.• Collaborated with Verra to develop a sustainable food methodology and funded 3 pilots at K-12 schools.	
Singularity Energy – <i>Data platform for tracking grid emissions</i> <i>Software Engineer</i>	Feb 2022 - May 2023 Somerville, MA
<ul style="list-style-type: none">• Led development of Singularity’s grid forecasting product, data API, and utility dashboards• Stack: React/Typescript, Python/FastAPI, PostgreSQL, Terraform, AWS	
Skydio, Optimus Ride, Adaviv, Kespry – <i>Various autonomous robotics companies</i> <i>Software Intern – Autonomy / Perception</i>	2018-2019 Redwood City, CA / Boston, MA
<ul style="list-style-type: none">• Skydio: Developed the first prototype of the “3D Scan” product (C++/Python).• Optimus Ride: Developed computer vision tools to autogenerate lane and curb maps from LiDAR scans (C++).	

EDUCATION

Massachusetts Institute of Technology <i>Masters of Engineering, Artificial Intelligence (Paper)</i>	2019 – 2020 Cambridge, MA
Massachusetts Institute of Technology <i>Bachelor of Science, Computer Science</i>	2015 – 2019 Cambridge, MA

CERTIFICATIONS, SKILLS & INTERESTS

- **Languages:** Python, Typescript/Javascript, C++, C#, R, Matlab
- **Web:** React/Next.js, Redux, Tailwind, FastAPI, PostgreSQL, Terraform, Supabase, Vercel, AWS, GCP
- **AI/Robotics:** C++, PyTorch, OpenCV, ROS/LCM, GTSAM, Unity3D, PydanticAI
- **Skills:** Full-Stack Web, AI/ML, Robotics, Computer Vision, UI/UX Design, Startups
- **Interests:** Triathlon, Type 2 fun, [writing](#)