# Luke Andreesen

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## EDUCATION

**The University of Chicago,** The College                                                                    *Sept. 2021 - June 2025*
Bachelor of Science in Computer Science, *Specialization in Machine Learning*
Bachelor of Arts in Economics, *Specialization in Business Economics*

**The University of Chicago,** Pritzker School of Molecular Engineering                    *Sept. 2025 - June 2026*
Master of Engineering in Quantum Engineering

## PROFESSIONAL EXPERIENCE

**qBraid**                                                                                                              **Chicago, Illinois**
*Quantum Software Engineering Intern*                                                              *June 2025 - August 2025*
- Developed qBraid Algos, a quantum algorithm library for constructing parameterized circuits in OpenQASM
- Implemented custom library inclusion support in PyQASM, an OpenQASM 3 semantic analyzer and toolkit
- Extended qBraid's quantum transpiler with support for AWS Braket's AutoQASM programming language

**Chicago Quantum Exchange**                                                                          **Chicago, Illinois**
*Data Science Student Worker*                                                              *September 2024 - April 2025*
- Gathered and analyzed data on quantum education, workforce development, and industry landscape
- Coordinated events and strategies for networking and outreach with major companies in quantum industry
- Built software & data pipelines to monitor the real-time growth of the quantum industry in U.S. and Chicago

**Error Corp.**                                                                                                **College Park, Maryland**
*Quantum Software Engineering Intern*                                                              *June 2024 - August 2024*
- Developed gradient ascent-based quantum optimal control software for QuTiP via pulse amplitude optimization
- Conducted quantum state tomography on experimental results via IonQ devices for error correction experiments
- Explored practical use-cases of quantum machine learning using Qiskit, Pennylane, and QBraid platforms

**Invictus Growth Partners**                                                                  **San Mateo, California (Remote)**
*Data Science Intern*                                                                                        *August 2023 - May 2024*
- Developed and deployed custom web crawler on AWS Linux server to autonomously scrape and process entire websites for use in proprietary deal-sourcing machine learning model using Python and AWS S3/SQS
- Automated the injection of 30+ data sources into Salesforce reports for deal-sourcing and portfolio monitoring
- Tuned parameters and optimized proprietary deal-sourcing Neural Engine used to identify over 80% of the firm's $300+ million in private equity investments

**Duco Experts**                                                                                **San Francisco, California (Remote)**
*Software Engineering Intern*                                                                              *May 2023 - August 2023*
- Implemented 20+ large-scale features on the company's web application using Ruby on Rails framework, including integrated Slack messaging, collaborative action item tracking, and filter-based platform searching
- Developed and implemented AI software to match clients with experts for their projects using OpenAI API

*Security & Intelligence Intern*                                                                          *January 2023-May 2023*
- Delivered 15+ detailed research papers and briefs on topics including cybersecurity, national security threats, payment fraud, executive protection, and workplace violence to Fortune 100 clients
- Identified, recruited, and vetted over 150 high-profile individuals to be added to Duco's expert network

## SKILLS

**Quantum Computing:** Qiskit, Braket, Cirq, PennyLane, QuTiP, qBraid SDK, Quantum Algorithms (QFT, QPE, VQA's)
**Data Science, AI, & ML:** PyTorch, TensorFlow, LangGraph, NumPy/SciPy, Scikit-Learn, Pandas, R, SQL, Excel
**General:** Python, Java, C/C++,  HTML/CSS, Java/TypeScript, React (Native), Git, Selenium, LaTeX, AWS Services