

# Matthew MacEachern

📍 San Francisco, CA

🛂 H-1B Visa

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[My Website](#)

## EDUCATION

**B.A.Sc. Computer Engineering | Software Specialization**, Queen's University, Kingston, Canada

2020 – 2024

- Queen's University Excellence Scholarship, 2x Dean's List Scholar

### Tech Stack

- Frontend: React, Next.js, Typescript, JavaScript, MaterialUI, Auth0, Datadog, Heroku
- Backend: Python, SQL, Node.js, AWS CDK, AWS Lambda/API Gateway/RDS/CodePipeline
- Data Layer: Apache Airflow, AWS Athena, Warehouse

## PROFESSIONAL EXPERIENCE

**Full Stack Engineer I**, [Pivotal Life Sciences](#), San Francisco, California

Jun 2025 – Present

- Developed a biotech AI investment platform (**React, Next.js, TypeScript, Python, AWS**) enabling onboarding of 35+ users.
- Co-led development of an **AI-powered natural language search** feature trained using private warehouse data, significantly improving search relevance and reducing investor research time; used in **75%** of company workflows.
- Architected **low-latency RESTful APIs**, optimizing payload chunking and reducing average response time by **35%**.
- Designed warehouse schemas and engineered **Airflow** ETL pipelines to move structured research data to the app DB.

**Junior Full Stack Engineer**, [Pivotal Life Sciences](#), San Francisco, California

Sept 2024 – Jun 2025

- **Owned platform reliability** as one of two full-stack engineers. Implemented monitoring and alert systems (**Datadog**) to maintain **99.9%** uptime while serving on-call rotations of **14-days**.
- Worked with cross-functional teams (biologists, statisticians) to scope, & ship data-rich features used in **>80%** of workflows.

**Full Stack Engineer - Internship**, [Pivotal Life Sciences](#), San Francisco, California

May 2023 – Aug 2023

- Selected by senior leadership as the sole intern to continue post-internship with a new contract with an **80%+** pay increase to continue work throughout my final year of university.
- Led the development of Pivotal's first AI investment platform used by a team of 35+ people to make investment decisions.
- Optimized application layer efficiency with a comprehensive architecture comparison & analysis. Deployed architecture that minimized cost and maintained max performance (response latency of < 100ms).
- Built a robust application with a **Python** backend (**AWS CDK, Lambda, RDS, DynamoDB, Cognito**) and **React** frontend (**MUI**).

**Artificial Intelligence Engineer**, [MoneyLion](#), Kuala Lumpur, Malaysia

Jun 2022 – Aug 2022

- Developed an **ETL pipeline** for the automation of sanity testing and profiling on MoneyLion's **core AI models**.
- Developed a **Python** program for automatic data extraction and profiling from **S3**, enabling data-driven testing conditions. The data was then integrated with Snowflake, backing marketing funnel KPIs to boost campaign performance.

**Fellow**, [The Cansbridge Fellowship](#), San Francisco, California

Jan 2022 – Aug 2022

- Selected as one of 27 students out of 1000+ applicants (~3% acceptance rate) awarded a \$10,000 grant and invited to become a Fellow. Used the grant to pursue an engineering internship in Asia.

## EXTRACURRICULAR & PROJECTS

**President**, [Queen's Technology and Media Association](#), Queen's University

Feb 2023 – Apr 2024

- Directly managed 50 students and a \$20K budget, directing 4 cross-functional product teams building & launching software.

**Trackaroo**, [Trackaroo](#), San Francisco

- Built an AI-powered job search platform using OpenAI APIs to optimize resumes against job descriptions, generate cover letters and cold emails, and simulate interviews with coding challenges.

**SalarySignal**, [SalarySignal](#), San Francisco

- Built a GPT-4-powered negotiation platform that simulates recruiter conversations, analyzes job offers, and generates personalized counteroffers through an interactive interface.