

# William Thomson

— Portfolio — Github — will.thomson4@gmail.com — +44 7801824101 —

## SUMMARY

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Software engineer, based in London, with 3+ years professional engineering experience. Experience with machine learning, full-stack web development and cloud infrastructure tools. I hold a masters degree from Imperial College London and a bachelors degree from Durham University. Interested in fast-paced start-ups in the ML space, previously interviewed at Y-Combinator for an ML startup, and excited about building early stage products.

## EMPLOYMENT

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- **PolyAI - Software Engineer** (*September 2022 - Present*)
  - Wrote and tested scalable Python code, to handle 1000s of calls a day, for 10+ conversational AI assistants for enterprise customers including FedEx, Marriott and Metro Bank, producing a combined recurring revenue of over \$8 million.
  - Tech Lead for 3 projects, organisation across product managers, machine learning engineers and dialogue designers. Led meetings with client tech teams for the integration of their APIs and telephony infrastructure.
  - Tech Lead for one of the companies first generative AI deployments; Integration with LLMs and real-time speech services; Python development for the company's LLM response streaming handler.
  - Full-stack web development (Typescript/React/Python) of internal web platforms to improve debugging and reduce bot build time by 15%. Full-stack development of PolyAI's low-code platform for bot building.
  - Deployed to Asia-Pacific region for 4 months to provide engineering support for software integrations across Singapore, Japan and Australia. Diagnosis and debugging for telephony and networking issues.
- **Kitt Medical - Software Engineer (Contract)** (*May 2022 - September 2022*)
  - Worked with the company at pre-seed to develop their MedTech web platform. Built the platform in Python, NextJS and Javascript as the only engineer. Functionality for auth, displaying training materials, user management and stock management. Platform now supports over 1000 medical staff members across 150 UK schools.
- **OpenKit - Full Stack Engineer** (*June 2021 - July 2022*)
  - Building and deploying both web and mobile applications using GCP. Reduced Firestore document reads by 10% with a custom pagination system. Writing Google Cloud functions to monitor database changes and support applications.
  - Development of full-stack features in web and mobile applications using Flutter, React and NodeJS. Focus on product development and fast product iteration, communicating with designers and external clients.
- **IT Just Done - Software Engineer (Contract)** (*December 2020 - July 2021*)
  - Worked with the team at ITJD as a full-stack engineer to build out their challenger webmail service. Built the front end platform in React and Javascript, as well as backend configuration of their webmail server in Apache Linux with Postgres.
- **Nomadic Software - Software Developer (Intern)** (*July - September 2020*)
  - Front-end web development in JavaScript, building real-time, multiplayer, browser games. Development with the HTML Canvas API. Collaboration with designers through Figma, and with other engineers through Git.

## EDUCATION

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### Imperial College London

London, U.K. 2021 - 2022

MSc Computer Science

**Thesis:** Achieving High Quality Facial Rendering With Mobile Devices Using Neural Volumetric Rendering

**Extra-Curricular:** ICHack 2022, Netcraft CTF, Google HashCode, MSc Computing Mentor

### Durham University

Durham, U.K. 2017 - 2020

BA Geography

**Thesis:** Data Dispossession: The Indigenous Data Sovereignty Movement and Colonial Resistance in The Digital Age

## QUALIFICATIONS

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- AWS Cloud Practitioner, APM Project Management Fundamentals

## SKILLS SUMMARY

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- **Languages:** JavaScript, TypeScript, Python
- **Web:** React, Redux, Tailwind, CSS
- **Tools:** Github, Google Cloud, AWS, Datadog
- **Machine Learning:** Neural Radiance Fields, LLMs, NLP Models