

NICHOLAS LAMBOURNE

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EXPERIENCE

Canva <i>Engineering Manager (ML)</i>	Sydney, NSW Dec 2024 - Present
<ul style="list-style-type: none">In the process of standing up the new AI Enablement team to facilitate the integration of AI in features across Canva. <i>Senior ML Engineer</i> ← <i>ML Engineer</i> ← <i>Associate Data Engineer</i>	Feb 2021 - Dec 2024
<ul style="list-style-type: none">As part of the ML Platform team I worked to maintain the infrastructure that powers Canva's wide array of machine learning applications and facilitate the creation of new applications by our embedded machine learning engineers. <i>Software Engineering Intern</i>	Dec 2019 - Feb 2020
<ul style="list-style-type: none">As part of the infrastructure team, built a shell script transpiler framework and reference generator targeting Python 3.Created an interactive playground, using Python, Flask and React, allowing for real-time transpilation in the browser. The University of Queensland - School of Electrical Engineering & Computer Science <i>Senior Research Assistant</i> ← <i>Research Assistant</i>	Brisbane, QLD Jun 2018 - Feb 2024
<ul style="list-style-type: none">I contributed to the development of Elpis, a user-friendly tool for the development of automatic speech recognition (ASR) models. The tool supports several back end engines available through a GUI built using React and Flask. <i>Teaching Assistant</i>	Jul 2018 - Dec 2020
<ul style="list-style-type: none">Tutored and prepared materials for various courses including <i>Voyages in Language Technologies</i> (COMP3001), <i>Computer Systems Principles and Programming</i> (CSSE2310), and <i>Programming in the Large</i> (CSSE2002). Atlassian <i>Site Reliability Engineering Intern</i>	Sydney, NSW Nov 2020 - Feb 2021
<ul style="list-style-type: none">Attached to the Platform SRE team, I worked on various full stack (PostgreSQL, Java, Spring, TypeScript) projects related to the reporting of service level objective (SLO) performance to internal teams. Sepsis Scout (Formerly Patchd, Inc.) <i>Software Engineering Intern</i>	San Francisco, CA Jan 2019 - Feb 2019
<ul style="list-style-type: none">Worked on parallelisation strategies for training recurrent neural nets in the detection of sepsis from vital sign data.	

EDUCATION

The University of Queensland Bachelor of Laws (Honours) Bachelor of Science (Computer Science)	Brisbane, QLD, Australia Feb 2024 - Dec 2031 Graduated 2020
<ul style="list-style-type: none">Thesis: Software-Level Implementation of Quantum Finite Automata The University of Queensland Bachelor of Commerce (Finance) Bachelor of Science (Psychology)	Graduated 2015 Graduated 2015
The University of Connecticut Exchange Studies (Computer Science)	Storrs, CT, USA Jan 2018 - May 2018

PROJECTS

SlackBlocks - Slack API Wrapper & PyPI Package <ul style="list-style-type: none">Python library, published on PyPI, providing a user-friendly Python interface to the Slack BlockKit API. The library has over 1 million downloads to date and is depended upon by the Masonite Python Framework, amongst others. Elpis - Accelerated Linguistic Transcription <ul style="list-style-type: none">Part of a team developing an abstraction framework and GUI for speech recognition using the Kaldi ASR library. UQCSbot - A Python-Based, Extensible Slack Bot <ul style="list-style-type: none">Contributed new Python scripts, script overhauls, and code reviews to my university computing society's Slack bot.	github.com/nicklambourne/slackblocks github.com/CoEDL/elpis github.com/UQComputingSociety/uqcsbot
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SKILLS

Languages:	Python, Java, C, TypeScript, SQL, HTML/CSS, Jsonnet, L ^A T _E X
Tools:	Infrastructure (Terraform), Orchestration (Kubernetes), Packaging (Nix), Web Frameworks (Flask, Uvicorn), CI/CD (Buildkite, GH Actions), Cloud Platforms (AWS), Containers (Docker)

VOLUNTEERING

University of Queensland Computing Society (UQCS) <ul style="list-style-type: none">Organised events, sponsorships, and open source projects as president in 2019. Managed the events portfolio in 2020.In 2020 I was named an honorary life member in recognition of extraordinary contributions to the society. UNSW Computer Science & Engineering Society (CSESoc) <ul style="list-style-type: none">Acted as an industry mentor to groups of CS students, facilitating weekly catchups and career preparation training.Wrote long-form career advice articles, appeared as a guest on podcasts, and delivered technical talks to students. Node Girls, Django Girls, & Robogals (Brisbane Chapters) <ul style="list-style-type: none">Provided mentorship in web and robotics technologies in an effort to increase female representation in technology.	2015 - Present 2021 - 2023 2016 - 2020
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SCHOLARSHIPS, GRANTS & PRIZES

UQ Faculty of Engineering, Architecture & IT Hawken Scholar	(2020)
UQ IdeaHub San Francisco Startup Adventure Participant	(2019)
UQ Summer Research Scholarship	(2019)
UQ Advantage Grant (CoEDL Summer School)	(2018)
UQ Winter Research Scholarship	(2018)