Miles Johan Bailey-Braendgaard, Software Engineer

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Nationality	UK, Denmark (EU), and US

SUMMARY AND VISA DETAILS

Software Engineer currently in **Fintech/Renewable Energy** with a **background in Computer Science, Bio-mechanics, the Arts, and Engineering** who is ready to develop, learn, and become a proactive member of your team!

I hold a **Subclass 309 Partner visa** which provides **full work rights in Australia** and a direct automatic pathway to permanent residency (Subclass 100). Will be moving to Melbourne from the UK in April 2026, available to start work from **15th April 2026 onwards.**

SKILLS

- I often work day-to-day with: **Python, TypeScript, AWS (incl. S3, Lambda, ECS, RDS, Cloudformation, CodePipelines/Build, and others), Node.js, Express, React, MySQL, Git/Github/Gitlabs, JIRA, Confluence, PowerBI, Agile.**
- Work inter-disciplinarily with **analysts, modellers, and product leads/managers** including **explaining deeper technical concepts of our architecture** in an understandable manner.
- Can adapt to new technologies quickly
- **People- and detail-oriented,** with **experience line-managing, interviewing, scrum-leading, and starting up dev 'guilds'** at Aurora Energy Research and **organising and hosting events, student support, and faculty negotiations** in the Jönköping University Student Union
- Experience with **3D modelling, scanning, printing, and gait analysis software** including Canfit, Paromed, Autodesk, Vxelements, Visual3D, and Qualisys.
- Also familiar with the **computational and projective geometry** and **signal processing** methods used in scanning software and myoelectric embedded software.

EXPERIENCE

Mar 2025 — Present	Software Engineer, Aurora Energy Research	Oxford, UK

- I work to **improve architecture and processes** within **statistical financial model code**. Furthering **collaboration** between **Engineering** and **Modelling** departments.
- **Run a multidisciplinary scrum team** with modellers and software engineers
- Started '**Continuous Improvement**' guild to try and avoid stagnation and up dev satisfaction.
- **Run 1st and 2nd round interviews and line manage Junior Software Engineers**

Jan 2023 — Mar 2025	Junior Software Engineer, Aurora Energy Research	Oxford, UK

- **Saved hundreds of $ each month** by implementing an S3 cleaning loop lambda
- Delivered an **ECS job queueing system** that improved service and wait times for both internal teams and external users globally **by days in some cases**
- Delivered comprehensive scaling upgrades and also **won company-wide 'Code of the Year' award for a local 'cluster simulator' model** for future pre-load test confidence
- Helped to **start up 'Operations Guild'** that improves general operational status/habits + monitoring architecture across all products **e.g. alerting, security issues, DB/package upgrades, and system health**

Nov 2021 — Jan 2022	Intern Prosthetist/Orthotist, Aktiv Ortopedteknik	Lund, Sweden

- Handled **delicate scenarios and design problems under time pressure** in direct clinical design work and gained experience programming **myoelectric "bionic" Upper Limb Prosthetics and patient databases**

Mar 2019 — Dec 2019	Production Assistant/Developer, Culture Hustle	Bournemouth, UK

- **Developed an AI 'Chatbot'** (Primarily in AIML) for the company website

EDUCATION

Jun 2022 — Dec 2022

Full Stack Web Developer Program, EPICODE
<div align="right">Remote</div>

- To update my knowledge on current popular web dev stacks, participated in **intensive highly-rated Full-Stack Development Course**
- Mainly **MERN** and **PERN** with topics such as **Javascript, Typescript, React, Redux, HTML, CSS, NodeJS, Express, MongoDB, SQL, PostgreSQL, Cryptography, Security, and Authentication**

Aug 2019 — Jun 2022

BSc Prosthetics and Orthotics, Jönköping University
<div align="right">Jönköping, Sweden</div>

- International Society of Prosthetics and Orthotics (ISPO) Accredited Program
- **Clinical, tech, and research focused** including **statistics, mechanical and biomechanical engineering, and psychology** modules
- Dissertation on the **application, accuracy, and reliability of 3D scanning devices and spatial data processing software** in the field

Jul 2017

UNIQ Oxford University Summer School
<div align="right">Oxford, UK</div>

- **Official summer school run by the University of Oxford** with **specialisation in Engineering and Engineering software** including **MATLAB and C++**

LANGUAGES

English	Native speaker	Danish	Highly proficient
Swedish	Highly proficient	German	Good working knowledge

HOBBIES

Languages - trying desperately to get my HK1 Mandarin;

Olympic Lifting three times a week;

Building a playlist transfer website so I can backup my many Spotify playlists - <u>check it out here!</u>;