Miles Johan Bailey-Braendgaard, Software Engineer

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Nationality	UK, Denmark (EU), and US

LINKS	My Website (milesbb.tech), LinkedIn, Github

SUMMARY AND VISA DETAILS

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

Technologies I often work with day-to-day include: **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.**

I hold a 309 Partner Visa with full work rights. Currently in UK and will be moving to Melbourne in 2026, available to start work from April 2026 onwards.

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** including biohazard scenarios, war-related injuries, language interpretation, and healthcare work during the COVID-19 pandemic
- Gained experience with **myoelectric "bionic" Upper Limb Prosthetics and patient databases**

Aug 2020 — Aug 2021

Writer, EDIT Newspaper
Jönköping, Sweden

- Wrote **English and Swedish language articles** on topics such as politics, social issues, and art

Sep 2019 — Jun 2021

International Student Union Rep., Jönköping Student Union
Jönköping, Sweden

- **Representative for the School of Medicine Student Union** and member of the Integration and Activity Committee **organising events, trips, and support** for international students in Sweden

Mar 2019 — Dec 2019

Production Assistant/Developer, Culture Hustle
Bournemouth, UK

- Assistant to British artist Stuart Semple in both manufacture of commercial art supply products and maintenance of art studio space. Developed an AI 'Chatbot' (Primarily in AIML) for the company website

Jun 2015

Software Engineering Work Experience, Siemens Traffic Solutions
Poole, UK

- Shadowed software engineering department designing junction traffic sorting algorithms in C#.

Jul 2016

Arkwright Engineering Scholarship

- **Competitive UK-based scholarship** sponsoring **a few students each year with skill in Engineering, Computing, and Technical Design**. Included an engineering placement at UK-based defence firm **Ultra Electronics**

EDUCATION

Jun 2022 — Dec 2022

Full Stack Web Developer Program, EPICODE
Remote

- 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
Jönköping, Sweden

- 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
Oxford, UK

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

Sep 2014 — Jul 2018

A-Levels and GCSEs, Poole Grammar School
Poole, UK

- 3 A-Levels: **Maths, Electronics, and German**
- 13 GCSEs: including **Maths, Further Maths, Computer Science, and Electronics**

SKILLS

- 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 organising and hosting** events, trips, and student support in the Jönköping University Student Union and at Aurora Energy Research
- 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.

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>;