

Miles Johan Bailey-Braendgaard, Software Engineer

Melbourne, Australia, +447391894290, milesbb101@gmail.com

Nationality	UK, Denmark (EU), and US	
LINKS	My Website (milesbb.tech) , LinkedIn , Github	
SUMMARY AND VISA DETAILS	<p>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!</p> <p>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.</p> <p>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 <u>18th May 2026</u>.</p>	
EXPERIENCE		
Mar 2025 — Present	Software Engineer, Aurora Energy Research	Oxford, UK
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Shadowed software engineering department designing junction traffic sorting algorithms in C#.		

AWARDS

Jul 2016	Arkwright Engineering Scholarship	
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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 - [check it out here!](#);