

# Miles Johan Bailey-Braendgaard, Software Engineer

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Nationality UK, Denmark (EU), and US

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LINKS [Portfolio](#), [LinkedIn](#), [Github](#)

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PROFILE

Software Engineer 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: **TypeScript, Javascript, Python, AWS (S3, Lambda, ECS, EC2, RDS, CF, CW, and others), Node.js, Express, React.js, CSS, HTML, SQL (PostgreSQL, MySQL), Redux, Git/Github/Gitlabs, JIRA, Confluence, PowerBI, Agile Methodology.**

Currently in **Fintech/Renewable Energy** working on **SaaS/MaaS** (Modelling-as-a-Service) with **Full-stack responsibilities** within **cloud-based (AWS) event-driven serverless Typescript and Python** based **micro-services** and **React micro-frontends**.

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## EXPERIENCE

Mar 2025 — Present	Software Engineer, Aurora Energy Research	Oxford
	<ul style="list-style-type: none"><li>• Mostly working day to day <b>improving architecture and processes</b> within heavily <b>statistical financial model code</b>. Working to further develop <b>collaboration</b> between <b>Engineering</b> and <b>Modelling</b> departments.</li><li>• <b>Currently run a multidisciplinary scrum team</b> with modellers and software engineers</li><li>• Helped start '<b>Continuous Improvement</b>' guild to try and avoid stagnation, improve feeling of devs '<b>having a say</b>' within the team (introduced health check system a la 'Spotify'), and constantly <b>examine and improve our processes</b></li></ul>	
Jan 2023 — Mar 2025	Junior Software Engineer, Aurora Energy Research	Oxford, UK
	<ul style="list-style-type: none"><li>• <b>Saved hundreds of \$ each month and many TB's of data</b> by implementing a new cleaning loop lambda</li><li>• <b>Designed/Implemented</b> dynamic and <b>automatic job queueing/cluster-sharing system</b> that improved service and wait times for both regional internal teams and external users globally <b>by days in some cases</b></li><li>• Designed/implemented comprehensive <b>scaling upgrades (also including load testing and a local 'cluster simulator' model for future pre-load test confidence)</b> for product's cloud architecture, <b>presented plans and results to higher ups (won 'Code of the Year' in company-wide awards for 'cluster simulator')</b></li><li>• Improved <b>observability + monitoring</b> both across stack (mainly via. <b>PowerBI, Teams, and Cloudwatch</b>) and across whole team (via. helping to <b>start up 'Operations Guild'</b> that improves general operational status/habits + monitoring architecture across all products <b>i.e. alerting, security issues, DB/package upgrades, system health, etc...</b>)</li></ul>	
Nov 2021 — Jan 2022	Intern Prosthetist/Orthotist, Aktiv Ortopedteknik	Lund, Sweden
	<ul style="list-style-type: none"><li>• Handled <b>delicate scenarios and design problems under time pressure</b> including biohazard scenarios, war-related injuries, language interpretation, and healthcare work during the COVID-19 pandemic</li><li>• Gained experience with <b>myoelectric "bionic" Upper Limb Prosthetics and patient databases</b></li></ul>	
Aug 2020 — Aug 2021	Writer, EDIT Newspaper	Jönköping, Sweden
	<ul style="list-style-type: none"><li>• Wrote <b>English and Swedish language articles</b> on topics such as politics, social issues, and art</li></ul>	
Sep 2019 — Jun 2021	International Student Union Rep., Jönköping Student Union	Jönköping, Sweden
	<ul style="list-style-type: none"><li>• <b>Representative for the School of Medicine Student Union</b> and member of the Integration and Activity Committee <b>organising events, trips, and support</b> for international students in Sweden</li></ul>	

Mar 2019 — Dec 2019	Production Assistant/Developer, Culture Hustle	Bournemouth, UK
	<ul style="list-style-type: none"> <li>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</li> </ul>	
Jun 2015	Software Engineering Work Experience, Siemens Traffic Solutions	Poole, UK
	<ul style="list-style-type: none"> <li>Shadowed software engineering department designing junction traffic sorting algorithms in C#.</li> </ul>	

## AWARDS

Jul 2016	Arkwright Engineering Scholarship	
	<ul style="list-style-type: none"> <li><b>Competitive UK-based scholarship</b> sponsoring a few students each year with skill in <b>Engineering, Computing, and Technical Design</b>. Included a placement at UK-based defence firm <b>Ultra Electronics</b></li> </ul>	

## EDUCATION

Jun 2022 — Dec 2022	Full Stack Web Developer Program, EPICODE/Strive School	Remote
	<ul style="list-style-type: none"> <li><b>Highly-intensity highly-rated Full-Stack Development Course</b> (Formerly known as Strive School) focusing on MERN and PERN stack including topics such as <b>Javascript, Typescript, React, Redux, HTML, CSS, NodeJS, Express, MongoDB, SQL, PostgreSQL, Cryptography, Security, and Authentication</b></li> </ul>	
Aug 2019 — Jun 2022	BSc Prosthetics and Orthotics, Jönköping University	Jönköping, Sweden
	<ul style="list-style-type: none"> <li>International Society of Prosthetics and Orthotics (ISPO) Accredited Program</li> <li><b>Clinical, tech, and research focused</b> including modules on <b>statistics</b></li> <li><b>Dissertation on the application, accuracy, and reliability of 3D scanning devices and spatial data processing software</b> in the field</li> </ul>	
Jul 2017	UNIQ Oxford University Summer School	Oxford, UK
	<ul style="list-style-type: none"> <li><b>Official summer school run by the University of Oxford</b> with specialisation in <b>Engineering and Engineering software</b> including <b>MATLAB and C++</b></li> </ul>	
Sep 2014 — Jul 2018	A-Levels and GCSEs, Poole Grammar School	Poole, UK
	<ul style="list-style-type: none"> <li>3 A-Levels: <b>Maths, Electronics, and German</b></li> <li>13 GCSEs: including <b>Maths, Further Maths, Computer Science, and Electronics</b></li> </ul>	

## SKILLS

- Often work inter-disciplinarily with **analysts, modellers, and product leads/managers** including **explaining deeper technical concepts in our architecture** which they may not be as familiar with and relating them to the company's business logic/goals
- Have worked in **dev owned and modelling owned code** and am experienced in carrying out big architectural refactors in complex code bases
- I work daily with **Typescript and Python** and would be/have been able to quickly learn and adapt to other languages/frameworks/cloud services as required
- Experience with **3D modelling, scanning, printing, and gait analysis software** including Canfit, Paromed, Autodesk, Vxelements, Visual3D, and Qualisys
- People- and detail-oriented**, with **experience organising and hosting** events, trips, and student support in the Jönköping University Student Union and at work

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

## HOBBIES

Languages - trying desperately to learn Mandarin and Portuguese;  
 Music - play the bass and piano;  
 Hiking - every other weekend;