Miles Johan Bailey-Braendgaard, Software Engineer

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Nationality	UK, Denmark (EU), and US

LINKS

Portfolio, LinkedIn, Github

PROFILE

Software Engineer with a background in computer science, biomechanics, arts, and engineering who is ready to develop, learn, and become a proactive member of your team.

Have experience adapting to new languages, IDE's, and technologies and applying them to cross-disciplinary problems.

Technologies I often work with include: **TypeScript, JavaScript, Python, AWS (S3, Lambda, ECS, and others), React.js, Node.js, CSS, HTML, MongoDB, SQL, PostgreSQL, MySQL, Redux, Three.js, Bootstrap, Git/Github/Gitlabs, Vercel, Netlify, JIRA, Confluence, Teams, Agile Methodology.**

EXPERIENCE

Jan 2023 — Present

Junior Software Engineer, Aurora Energy Research
Oxford, UK

- Full-stack responsibilities within a complex architecture of event-driven serverless Typescript and Python based micro-services and seamless React micro-frontends using MySQL and AWS Cloud services including Lambda, S3, and ECS
- Developing fintech SaaS/MaaS (Modelling-as-a-Service) software solutions that handle bulk data and deliver bespoke financial simulations and analysis to worldwide internal and external users.
- Based in (Oxford) head office Software Engineering department often working inter-disciplinarily with analysts, modellers, and product leads
- Often work with commercial and other similar departments and help explain and relate deeper technical concepts in our architecture which they may not be as familiar with to the company's business logic/goals

Nov 2021 — Jan 2022

Intern Prosthetist/Orthotist , Aktiv Ortopedteknik
Lund, Sweden

- Clinical placement working hands-on with patients and collaborating in multidisciplinary teams within Skåne University-Hosptial.
- Experience handling delicate scenarios and design problems under time pressure including biohazard scenarios, war-related injuries, language interpretation, and healthcare work during the COVID-19 pandemic
- Adapted quickly to new patient records databases and software, gained in-depth experience including with Upper Limb Prosthetics.

Aug 2020 — Aug 2021

Writer , EDIT Newspaper
Jönköping, Sweden

- Wrote English and Swedish language articles on topics such as politics, social issues, and art for both the physical and online editions of the Jönköping University student newspaper.

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

May 2019 — Dec 2019

Software Developer , Culture Hustle
Bournemouth, UK

- Developed an AI 'Chatbot' (Primarily in AIML 2.0, HTML, and JavaScript) for the company to aid in marketing and customer support and UX.

Mar 2019 — Jun 2019

Production Assistant , Culture Hustle
Bournemouth, UK

- Assistant to British artist, creator, and activist Stuart Semple in both manufacture of commercial art supply products and maintenance of art studio space.

Jun 2015

Software Engineering Work Experience , Siemens Traffic Solutions
Poole, UK

- Shadowed software engineering department whilst learning about and designing junction traffic sorting algorithms in C#.

Jun 2022 — Dec 2022   **Full Stack Web Developer Program, EPICODE/Strive School**   Remote

- High-intensive highly-rated Full-Stack Development Bootcamp (Formerly known as Strive School) focusing on MERN and PERN stack including topics such as Javascript, Typescript, React, Redux, HTML, CSS, NodeJS, ExpressJS, MongoDB, SQL, PostgreSQL, Cryptography, 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 modules on statistics
- 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 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

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AWARDS

Jul 2016   **Arkwright Engineering Scholarship**

- Competitive UK-based scholarship sponsoring school and extra-curricular projects in Engineering, Computing, and Technical Design, including a placement at UK-based defence firm Ultra Electronics.

SKILLS

- I work daily with **Typescript and Python** though I have some experience with **C#** and **Solidity** and would be 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

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LANGUAGES

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

HOBBIES

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