

# Johann Scott

*Curriculum Vitae*

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## ABOUT

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An aspiring software engineer, with experience in low-level systems and high-level applications. Comfortable working independently and collaboratively, versatile to meet and exceed expectations, and willing to leave their comfort zone. Eager to branch out into a professional environment and specialise in low-level systems.

## EDUCATION

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- **University of St Andrews** St Andrews, Fife, United Kingdom  
*MSci Computer Science* Sep 2023 - Jun 2028  
Expected First Class Honours (avg. 17.5/20), recipient of Dean's List for academic excellence in second year.
- **Bradford Grammar School** Bradford, West Yorkshire, United Kingdom  
*Secondary Education* Sep 2016 - Jul 2023  
A-Level: Computer Science (A\*), Mathematics (A\*), Further Mathematics (A), German (A), EPQ (Artefact) (A\*)

## EXPERIENCE

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- **University of St Andrews Students' Association** St Andrews, Fife, United Kingdom  
*Bar and Events Staff* Aug 2024 - Present  
Worked day and night shifts at the university bars and at associated external events, whilst studying for an integrated master's degree. Responsibilities included: setup and teardown; customer service; responsible sale of alcohol.  
**Skills:** Communication, Teamwork
- **School of Computer Science, University of St Andrews** St Andrews, Fife, United Kingdom  
*Research Intern* Feb 2024 - May 2024  
Tasked with expanding on an emulation and virtualisation technology developed in-house by Dr Tom Spink under the St Andrews Research Internship Scheme (StARIS). Responsibilities included: implementing system calls, virtual file systems, and configuration parsing; issuing progress reports; development strategising.  
**Skills:** Rust, Systems Programming
- **Otley Boats Ltd.** Otley, West Yorkshire, United Kingdom  
*Boat Crew* Jun 2021 - Jul 2023  
Handled payments, attended to patrons, and ensured customer safety in a lively environment.  
**Skills:** Communication, Teamwork

## PROJECTS

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- **Wakatiwai** GitHub: [kumomi-systems/wakatiwai](#)  
*A simple and configurable UEFI bootloader, written in Rust.* *May 2024 - Present*  
A simplified and modularised alternative to GRUB, offering a clean interface to manage boot options on a UEFI system. This project offers support for any filesystem or operating system by using runtime drivers, with a shipped API to allow other programmers to create their own to suit their needs.
- **Eisen** GitHub: [kumomi-systems/eisen](#)  
*A simple, modern, x86\_64 operating system.* *May 2025 - Present*  
Using the aforementioned Wakatiwai bootloader, Eisen is a simple kernel targeting the x86\_64 architecture, written in Rust.
- **Brubeck** GitHub: [somecollagist/Brubeck](#)  
*A prototype balanced quinary computer.* *Sep 2021 - Mar 2022*  
Written in service to completing an EPQ, Brubeck is an entirely experimental implementation of a base-5 computer, leveraging the values -2 to +2 and the inherent advantages of such a system. This project is a world-first, Turing complete, and features a custom assembler.

## SKILLS

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<b>Personal:</b>	Communication, Teamwork, Leadership
<b>Languages:</b>	Rust, C/C++, Assembly (x86_64), C#, Java, HTML/CSS/Javascript, Python, Bash, Haskell
<b>Frameworks:</b>	UEFI, Node.js, Vue.js
<b>Speaks:</b>	English (native), German (professional)
<b>Licences:</b>	PB2
<b>Other Skills:</b>	UNIX, Server Management, Git/GitHub, L <sup>A</sup> T <sub>E</sub> X, Sale and Licensing of Alcohol

## INTERESTS

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- Aikido - 2<sup>nd</sup> Kyū
- Music - Bass Guitar RSL Grade 6, Guitar, Ukulele

**References available upon request.**