

Johann Scott

Curriculum Vitae

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ABOUT

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

- **University of St Andrews** St Andrews, Fife, United Kingdom
MSci Computer Science Sep 2023 - Jun 2028
Expected First Class Honours, recipient of Dean's List 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

- **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

- **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

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

INTERESTS

- Aikido - 2nd Kyū
- Music - Bass Guitar RSL Grade 6, Guitar, Ukulele

References available upon request.