

# JOEL KARET

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## ABOUT

I've always been driven to solve problems through technology. I developed an interest in programming at a young age and have since learned multiple languages, continually pushing to improve my skills. After securing a gap-year internship at Accessia, I deferred my place at Loughborough University to explore professional software development firsthand. During that year, I found I thrived in a professional engineering environment, learning rapidly from experienced engineers and contributing meaningful value to the team. As a result of my growth and impact, I chose to decline my university offer and instead established a bespoke Degree Apprenticeship with Accessia, a role created specifically to retain me based on my performance.

## EMPLOYMENT HISTORY

### Accessia

**September 2024 - January 2026**

*Degree Apprenticeship Software Engineer*

*London, UK*

- Reduced floorplan deployment time and enhanced drawing accuracy by engineering a seamless interface where doors automatically snap onto walls (**Typescript/React**).
- Streamlined the creation of development environments and cut setup time, by automating API calls to the back-end database (**Python**).
- Enhanced codebase quality and reduced production bugs by actively participating in code reviews and integrating feedback into merged feature branches (**Git/Bitbucket**).
- Optimized user experience by researching and solving complex interface performance issues.

### Accessia

**September 2023 - September 2024**

*Intern Software Engineer*

*London, UK*

- Developed an independent Android application using **Kotlin** and **Jetpack Compose**, successfully integrating it with a **C/C++** hardware controller.
- Built and deployed a client-facing front-end interface using **Typescript** and **React**.
- Ensured system robustness by writing comprehensive unit tests for core functionality.
- Collaborated effectively within an Agile team, utilizing **Jira** for ticket management and **Bitbucket** for **Git**-based version control.

### Bushey Grove Leisure Centre

**November 2021 - July 2022**

*Lifeguard (Leisure Assistant) - Part Time*

*London, UK*

- Maintained the safety of the pool and the facility.
- Kept up to date with my training -

**First aid accreditation:** National Pool Lifeguarding Qualification (NPLQ), Automated External Defibrillator (AED), Emergency First Aid at Work

## EDUCATION

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### Watford Grammar School for Boys

2016 - 2023

London, UK

#### 3 A Levels:

*Computer Science (A), Mathematics (A), Further Mathematics (B)*

#### 11 GCSE's:

*Additional Mathematics (9), Mathematics (9), Computer Science (9), Physics (9), Biology (9), Chemistry (9), Geography (9), Latin (9), English Literature (9), English Language (8), German (7).*

## TECHNICAL PROJECTS & LEADERSHIP

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### Self-Hosted Discord Bot | *Python, JavaScript, Cloud Deployment*

- Architected a custom bot initially in **Python**, later refactoring the entire codebase to **JavaScript/Node.js** to improve maintainability and performance.
- Migrated hosting from a local Raspberry Pi to a **cloud-based VPS** to ensure high availability and uptime.
- After working professionally for a couple years, I took my learnings and refactored the code architecture again to allow other developers to easily clone and self-host their own instances.

### Computational Math Algorithms | *Algorithm Design*

- Developed a computational search program to identify "near misses" to Fermat's Last Theorem, optimizing for high numerical precision.
- Built a Sudoku Solver (A-Level Project) implementing a backtracking algorithm to efficiently solve complex grid states, as well as a simplistic and easy to use interface.

### Bnei Akiva Youth Organisation

September 2020 - April 2023

*Senior Leader (Voluntary)*

London, UK

- Led a team of peers in planning and executing large-scale community events for 100+ attendees.
- Managed safeguarding responsibilities, conflict resolution, and disciplinary issues for youth groups, ensuring a safe environment.