# James Thomas-Kusek

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## Education

**Delft University of Technology** — Delft, Netherlands
*Bachelor of Science in Computer Science - GPA 7.9* — *Sept. 2024 – July 2027*

**Marlborough Church of England School** — Oxford, England
*GCE A-Levels - A*AA in Maths, Further Maths and Physics* — *Aug. 2020 – July 2022*

**Marlborough Church of England School** — Oxford, England
*GCSE - 11 subjects with a GPA of 8.75* — *Aug. 2018 – July 2020*

## Experience

**Undergraduate Teaching Assistant** — Nov. 2025 – Jan. 2026
*Delft University of Technology* — *Delft, Netherlands*

- Acted as the primary mentor for 24 students, attending weekly meetings to monitor progress and process, leading to a 100% pass rate.
- Provided continuous evaluation and feedback to teams to foster healthy and collaborative group relationships.
- Educated teams on best practices for the future, including Agile principles and proper Git etiquette.

**Student Mentor** — Sept. 2025 – Dec. 2025
*Delft University of Technology* — *Delft, Netherlands*

- Held weekly get-togethers with a cohort of 30 students to foster new relationships and provide academic and extracurricular guidance.
- Liaised with student counsellors and lecturers to resolve conflicts and roadblocks.
- Organised industry talks with external entities to inspire students.

## Projects

**NetNote** | *Java, JavaFX, Spring Boot, Maven* — Nov. 2024 – Jan. 2025

- Developed a distributed, client-server note-taking application tailored for academic organization, featuring real-time Markdown rendering and live synchronization with Websockets.
- Implemented an inclusive design adhering to HCI guidelines with extensive shortcuts, feedback and multi-modal visualization.
- Led weekly reviews in line with Scrum principles.
- Planned and executed in 10 weeks with GitLab.

**LPRP** | *Python, NumPy, OpenCV* — Nov. 2025 – Jan. 2026

- Developed a modular, end-to-end pipeline for the localization, extraction and recognition of licence plates from photos and videos.
- Designed an extensive evaluation suite to compare different approaches.
- Achieved 80%+ accuracy on a diverse test set of videos.

## Competitions

**Optiver Hackathon** | *Erasmus University, Rotterdam* — Oct. 2025

- Developed a market-making strategy for a simulated exchange with a set of correlated financial instruments
- Ranked in top 40% of teams by PnL

**Uber Hackathon - JunctionXDelft** | *Delft, Netherlands* — Oct. 2025

- Designed and presented Ubie, the well-being companion for Uber associates.
- Conducted research with stakeholders and employees to engineer an effective solution
- Semi-finalist (Top 20%) where we pitched our product to a team of engineers at Uber.

## Technical Skills

**Languages**: Java, Python, x86 Assembly, SQL
**Frameworks**: NumPy, Pandas, OpenCV, Matplotlib, JavaFX, JDBC, Spring Boot
**Spoken Languages**: English, French