Julius Henriques

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Education

University of Toronto 09/2020 – 06/2026

- Honours Bachelor of Science, Computer Science, Biology, Forensic Science

Projects

FlyNext (Coursework project) https://flynext-raj.vercel.app/

- Worked in a team to build a full-stack travel-planning web application
- Implemented the API endpoints for user authentication and creation and hotel searching notification logic
- Designed and implemented all frontend features using React and TaildwindCSS
- **Tools Used:** Next.js, Linux, Typescript, Prisma, Postgres, Tailwind, React, Vercel

DreamScape (Deerhacks IV 2025 Hackathon) github.com/Julius14h/dreamscape

- Competed against 34 teams and came in first place for designing a full-stack dream interpreter application
- Designed and implemented API endpoints and an SQLite database to enable user authentication and persistent storage of dream entries with AI-generated analyses for later review.
- Delivered the project pitch to the judges.
- **Tools Used:** Next.js, Prisma, SQLite, Postman, Typescript, Linux, Python, Gemini

Adventure Game (Coursework project) github.com/Julius14h/adventure-game

- Enhanced an existing game with JavaFX, adding delete functionality using serialization as well as zoom capabilities via the Decorator pattern for a more dynamic UI.
- **Tools Used:** Java, JavaFx, Serialization, Git, IntelliJ

Relevant Coursework

- Software Design, Computer Organization, Software Tools and Systems Programming, Design of Interactive Computational Media, Programming on the Web, Theory of Computation Mathematical Proofs, Biological Data

Experience

Research Assistant , *Exploring Critical Algorithmic Literacies* - University of Toronto 5/2025 – 7/2025

- Will conduct a comprehensive literature review and needs assessment to identify best practices and challenges in teaching algorithmic literacy.
- Will contribute to developing and refining educational modules for Introducing Critical Algorithmic Literacies in Computer Programming, editing and adding new content to the eBook on the Open Library Publishing Platform.

Research Assistant, *AI in Clinical Decision Making* – University of Toronto 9/2025 – 4/2026

- Will conduct literature reviews on large language models (e.g., ChatGPT, Deepseek) to evaluate their application in clinical decision-making across various disease areas.
- Will analyze and summarize AI-generated responses, identifying errors and contributing to best practices for clinical use and synthetic psychology development.

Technical Skills

Languages: Python, R, Linux, C, Java, Assembly, SQL, JavaScript, Typescript, LaTex, HTML, CSS

Frameworks and Libraries: SQLite, VSCode, Intellij, Node.js, Next.js, JavaFx, Postman, React, Tailwind, GIT Control, Prisma

Developer Tools: Git, VSCode, Intellij, PyCharm, Figma, Postman