

# Bruno Jaamaa

## Software Engineer & UX Designer

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### SUMMARY

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Fourth-year Software Engineering and UX Design student at the University of Melbourne with production experience delivering full-stack applications for industry clients. Led frontend development on a logistics platform for a 5-person agile team, earning a High Distinction. Currently building Sentinel, an AI-powered intelligence platform for iOS that has attracted international investor interest from the UAE. Bilingual (English/Finnish) with strong skills in React, TypeScript, Swift, Python, and cloud architecture.

### EXPERIENCE

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#### Founder & Lead Developer — Sentinel Intelligence

2025 — Present

SwiftUI · Supabase · Gemini 2.5 Flash · Firecrawl · Next.js · Deno · StoreKit 2 · Stripe

- Founded and built an AI-powered intelligence platform for iOS that generates verified research reports by cross-referencing 10+ web sources per query using Gemini 2.5 Flash
- Architected full backend on Supabase — PostgreSQL with Row-Level Security, Edge Functions in Deno, real-time subscriptions, and OAuth authentication handling 50+ concurrent users
- Developed companion Next.js web application with server-side rendering, responsive design, and shared report viewing across platforms
- Implemented freemium monetisation model with StoreKit 2 (iOS) and Stripe (web), including usage-based gating and subscription management
- Attracted early-stage investor interest from UAE-based technology fund; currently in pre-launch phase targeting App Store release Q1 2026
- Managed full product lifecycle: market research, UX design, development, testing, branding, and go-to-market strategy

#### Frontend Lead — VOUCHR (Industry Client Project)

2025

*University of Melbourne — IT Project (High Distinction)*

Full-Stack Development · Agile/Scrum · UX Design · Client Delivery

- Led frontend development for a logistics industry client as part of a 5-person agile team, delivering a production-ready platform within a single semester
- Drove UX design process from user research through wireframing to final implementation, ensuring client requirements were met at every sprint review
- Collaborated on backend architecture and API integration, bridging frontend and backend teams to ensure seamless data flow
- Presented final deliverable to industry stakeholders, receiving a High Distinction grade — top band for the subject
- Ran sprint planning, standups, and retrospectives following Scrum methodology across 12-week development cycle

## PROJECTS

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### GitHub 3D Visualizer

2025

React · Three.js · TypeScript · GitHub REST API · Tailwind CSS

- Built an interactive 3D data visualisation tool rendering GitHub contribution data as explorable landscapes with dynamic camera controls at 60fps
- Integrated GitHub API for real-time profile fetching — contribution graphs, repository stats, and language breakdowns for any public user
- Optimised WebGL rendering pipeline with adaptive quality scaling to maintain performance across device capabilities

### Real-Time Collaboration Dashboard

2025

React · Node.js · WebSockets · Express · Role-Based Access Control

- Developed a full-stack collaborative project management platform with real-time updates via WebSocket connections across concurrent users
- Engineered role-based access control with 4 permission tiers, managing granular access to boards, tasks, and team administration
- Designed drag-and-drop task management with optimistic UI updates, reducing perceived latency by 80%

### SaaS Idea Validator

2025

React · TypeScript · Tailwind CSS · AI Integration · Vite

- Created an AI-powered validation tool analysing business ideas across market size, competition, feasibility, and monetisation potential
- Achieved WCAG AA accessibility compliance with 44px+ touch targets, keyboard navigation, and screen reader support

## EDUCATION

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### University of Melbourne

2022 — Present (4th Year)

*Bachelor of Science — Software Engineering & UX Design*

- **High Distinction:** IT Project — Full-stack application development for industry client (VOUCHR)
- Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Human-Computer Interaction, Software Modelling & Design, Distributed Systems
- Member of CISSA (Computing & Information Systems Students Association)

## TECHNICAL SKILLS

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Languages	TypeScript, JavaScript, Python, Swift, C, HTML/CSS, SQL
Frontend	React, Next.js, SwiftUI, Tailwind CSS, Three.js, Vite
Backend	Node.js, FastAPI, Express, Supabase, PostgreSQL, REST APIs, WebSockets
Cloud & DevOps	AWS, Vercel, Docker, Git/GitHub, CI/CD, Deno (Edge Functions)
Design & Tools	Figma, Blender, Xcode, Playwright, Agile/Scrum, User Research
AI/ML	Google Gemini API, OpenAI API, prompt engineering, AI-integrated UX

## ADDITIONAL

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- **Hackathons:** UNIHACK 2026 competitor (Australia's largest student hackathon, 500+ participants)
- **Languages:** English (native), Finnish (native) — bilingual
- **3D & Creative:** Blender — 3D modelling, animation, cloth simulation, procedural generation
- **Interests:** AI/ML applications, indie app development, creative technology, open-source tooling