

# JIMMY LUC

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## Education

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### University of Toronto

Sept 2019 – Aug 2024

Honours Bachelor of Science | Computer Science Major, Mathematics & Statistics Minor

## Technical Skills

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**Languages:** Python, JavaScript, TypeScript, Java, C, SQL, HTML, CSS

**Technologies:** Django, PostgreSQL, React, Next.js, Tailwind CSS

**Tools:** Git, Node.js, AWS, Docker, Figma

## Experience

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### SingleKey

May 2022–Aug 2025

Full-Stack Developer

Toronto, ON

- Spearheaded the full-stack development and launch of an e-signature product using TypeScript, Next.js, Python, and Django, directly contributing to product expansion and cross-selling.
- Built and shipped end-to-end features across the platform, including UI development, backend logic, database models, integrations, and deployment used by 600K+ active users.
- Collaborated alongside designers, product managers, and stakeholders to translate product requirements into solutions for landlords and tenants.
- Established automated CRM and email workflows using Hubspot and Postmark, reducing manual operational overhead and improving customer communication reliability.
- Delivered production-ready code in an agile 5-8 person engineering team by participating in daily standups, sprint planning, code reviews, and release cycles.
- Designed and deployed a robust two-factor authentication (2FA) system, enforcing industry-standard security measures to safeguard sensitive user data.

## Projects

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### Screen Recording & Sharing App | Next.js, PostgreSQL, Better Auth, Tailwind CSS

- Built a platform for users to record, upload and share screen recordings direct within a web browser.
- Integrated scalable video uploads, adaptive streaming, and metadata handling, enabling seamless video playback and sharing.
- Implemented secure user authentication and Google sign-in to support privacy controls for public and private content
- Utilized type-safe database operations and efficient data models to support reliable video and user management.

### Mushreviews | Next.js, React, TypeScript, Tailwind CSS, MDX

- Designed and developed a personal food blog using Next.js, MDX, and Tailwind CSS to document restaurant reviews and homemade recipes.
- Implemented dynamic content management with ContentLayer, enabling easy authoring and organization of blog posts and tags.
- Built responsive layouts and custom components for seamless reading experiences across devices.
- Integrated search functionality and newsletter subscription to enhance user engagement and site interactivity.

### MacBook Pro Landing Page Clone | React, Three.js, GSAP, Tailwind CSS, CodeRabbit

- Developed a fully responsive landing page clone to highlight modern frontend scroll-driven animations and interactive UI components.
- Implemented 3D visualization with real-time interaction and custom animations.
- Optimized performance for consistent animation and interaction across desktop and mobile devices.
- Leveraged AI-powered code review tool to identify bugs, enforce coding standards, and improve overall code quality.

### Data Analysis of Contributing Factors to Declining U.S. Birth Rates | R, Quarto, LaTeX, RStudio

- Wrote an analysis on US birth rate trends from 1980-2020, focusing on post-2007 declines and demographic factors.
- Collected, cleaned, and processed large-scale datasets from CDC, SEER, and US Census sources to ensure accurate and reproducible results.
- Identified correlations between birth rates and variables such as age, maternal education, and birth parity to identify socioeconomic patterns.
- Utilized various R packages for statistical analysis and data visualization, producing clear, interpretable graphs.