

Anselm Long

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EDUCATION

National University of Singapore

Singapore

Bachelor of Computing (Computer Science)

Aug 2023 – Apr 2027

- **GPA:** 4.69 / 5.00. **Specialized Track:** Artificial Intelligence
- **Relevant Coursework:** Artificial Intelligence and Machine Learning, Software Engineering, Object Oriented Programming, Data Structures and Algorithms, Statistics and Probability

SKILLS

Languages: Python, Java, JavaScript, C, C++, HTML/CSS, Go, \LaTeX

Frameworks: React, Next.js, Node.js, tRPC, JavaFX

Libraries: scikit-learn, Pandas, Numpy, YOLOv8

Developer Tools: Git, PostgreSQL, Vercel, VS Code, Firebase

PROJECTS

Freak-Cha | Frontend & Computer Vision Developer, HackHarvard 2025

Oct 2025

- Developed *Freak-Cha* (freakcha.com), a CAPTCHA-inspired challenge to distinguish humans from AI using facial expression recognition; awarded **Funniest Hack** at HackHarvard 2025.
- Built responsive frontend with **Next.js**, **Tailwind CSS**, and **tRPC**, integrating real-time facial recognition using **MediaPipe FaceMesh** and **YOLOv8**, to allow users to login quickly.
- Engineered data collection and labeling workflows to support training of the computer vision model on human facial patterns, improving accuracy of our facial expression model.
- Collaborated with a team of four to pitch and present the project, earning recognition as the organisers' favourites.

VBook | Team Lead, NUS

Sep 2024 – Nov 2024

- Led a 4-person team to design and develop a JavaFX-based CLI contact manager tailored for developers.
- Engineered an intuitive frontend interface using JavaFX, delivering a smooth and efficient user experience.
- Coordinated project milestones and delegated tasks to ensure timely completion of all deliverables.

MiccDrop | Team Lead, Hack & Roll 2024, NUS

Jan 2024

- Developed a humorous karaoke app that rewards off-key singing using React Native, Node.js, and Supabase.
- Built and refined the frontend in React Native, delivering an engaging and intuitive user interface for mobile users.
- Implemented karaoke-style lyrics using the Spotify API, increasing interactivity and entertainment value.

EXPERIENCE

Machine Learning Intern, IMDA

May 2025 – Aug 2025

Infocomm Media Development Authority

Singapore

- Researched and evaluated eight anomaly detection models, narrowing to one optimal model through quantitative comparisons of F1-score, speed, and explainability.
- Conducted extensive hyperparameter tuning and ablation studies across all shortlisted models to maximize performance and generalization on unseen datasets, achieving a best, near-perfect F1-score of **0.994**.
- Assessed the predictions of various models using Explainable AI (LIME) and feature importance analysis to surface key predictive features, improving transparency and stakeholder confidence in anomaly classification.

Strategic Digital Projects Intern, IMDA

May 2024 – Aug 2024

Infocomm Media Development Authority

Singapore

- Facilitated industry and company engagements in collaboration with Microsoft and AWS to showcase emerging technology use cases in industry-facing workshops, resulting in over **30** companies initiating GenAI projects.
- Led a data consolidation initiative leveraging Salesforce to streamline cluster management and cross-team decision-making, reducing time spent locating data by **35%**.

Freelance Photographer and Videographer, Self-Employed

Oct 2019 – Aug 2025

Singapore

- Managed end-to-end client and vendor relationships, increasing monthly revenue by **300% over 6 years**.
- Delivered high-quality digital photography and videography services, resulting in high client satisfaction and referrals from over 150 clients.

CO-CURRICULAR ACTIVITIES

Ridge View Residential College Programme, NUS

Aug 2023 – Present

Senior Student Leader (AY25/26)

Singapore

- Spearheaded multiple publicity initiatives in the **RV Social Media Team**, **RV Peer Student Supporters (PSS)**, **RV Coffee Club**, and **RV Open House 2025**, driving engagement through creative campaigns and multimedia content.
- Founded **RV Media**, a student-run initiative dedicated to digital storytelling and archiving events at Ridge View Residential College.
- Represented Ridge View in the **Inter-College Games 2023-2024** and captained the **Ridge View Bouldering Team**.