

# Sam Chusen Ou

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## WORK EXPERIENCE

### IT Application Support – Corporate (Co-op)

Linamar Corporation

January 2025 – August 2025

Guelph, Canada

- Resolved **600+** finance, operations and access incidents with an average resolution time under **4 hours**, exceeding SLA targets by **92%**.
- Automated dormant accounts review process with **Python**, eliminating **99.96%** of manual work and preparing ITGC audit-ready data for external auditors.
- Led bi-weekly Internal Audit meetings to present due diligence on IFS segregation-of-duties conflicts, resolving **100+** SOD issues.
- Authored **IFS** User Access guide, formalized into a centrally controlled WI and adopted as the company's **IFS** access workflow.
- Reconfigured GL accounts in **IFS** to align with French **GAAP** (Combination Rules and Tax Codes).

### Application Developer (Part-time & Remote)

August 2024 – September 2025

Hans Holdings Management

Basingstoke, United Kingdom

- Shipped a RESTful Flask-based reservation system; **£2,000+** annual savings, **1,700+** week-one bookings, **30,000+** month-one visits.
- Implemented role-based authentication with **AES**-encrypted PII, **Argon2** hashing, **CSRF** protection, **CSP**, and custom rate limiting.
- Developed tamper-proof audit logs with **SQLite** triggers to ensure **GDPR compliance**, data integrity and auditability.
- Led user acceptance and penetration testing, documenting vulnerabilities and validating fixes to meet business and compliance requirements.

### Assistant Accounting Intern (Co-op)

May 2024 – August 2024

Fortune Foods UK

Reading, United Kingdom

- Launched a secure B2B e-commerce site (**Shopify**, **Liquid**, **JS**) with a **React** marketing site, driving **6.1k+** verified sessions, **65%** returning customers, and **58.4%** referral-driven sales.
- Implemented **Algolia** to reduce multilingual search errors, deployed custom **JS** middleware for dynamic collection remapping.
- Deployed an internal labelling platform with one-click translation, banned E-number flagging, allergen detection, barcode generation, and HTML-to-PDF export — cutting creation time by **80%+** and ensuring EU/UK FSA compliance.
- Shipped customer-facing cataloguing software using **Flask** and **Python**, reducing production time by over **50%**.
- Managed RTI payroll and GL entries in **Sage50** and **Payroo**. Handled daily journal entries and stock checks across SKUs in **Excel**.

## PROJECTS

### Placecard - (Live demo: [the-placecard.vercel.app](#))

- Built and deployed a private, non-commercial social app for UW/WLU students with invite-only access, trust scoring, and moderation.
- Implemented messaging, abuse reporting, and LLM user-host matching. Deployed on Railway/Gunicorn (API) & Vercel (Frontend).
- Added Firebase security rules and optimized database reads/writes to prevent unauthorized access risks and save GCP costs.

### FortuneVantage DSS & BI Platform - Proprietary

- Designed and shipped a secure, production BI platform for a UK food wholesaler, covering customer management and sales analytics.
- Built automated **Excel** import pipelines with validation, normalization, and postcode-based geocoding for regional analysis.
- Developed interactive dashboards for top customers, regional performance, sales maps, and **Prophet**-based next-order forecasting.

## SKILLS & INTERESTS

- Languages & Frameworks:** Python, JavaScript, SQL, C, HTML/CSS, R, VBA, Liquid
- Libraries & Databases:** Pandas, NumPy, SQLite, MySQL, React, Flask, Prophet, Firebase
- Systems, Security & Data:** Linux (Bash, Cron, SSH), AWS EC2, ServiceNow; AES, Argon2, CSP, CSRF, GDPR, Gunicorn
- ERP, Finance & Tools:** IFS (V8, Cloud), Sage 50, Excel, Payroo, Loftware Spectrum, Apache Guacamole
- Interests:** Tennis, Golf, Sabre Fencing, Cooking, Speciality Coffee, Formula One, Sim Racing

## EDUCATION

### University of Waterloo

Waterloo, Canada

Bachelor of Mathematics, Mathematics/Financial Analysis and Risk Management (CFA Specialization)

Joint Honours in Statistics · Computational Mathematics Minor · President's Scholarship · CFA Level I Candidate (Aug 2026)

**Relevant Coursework:** Optimization, Financial Mathematics, Calculus III, Linear Algebra II, Investment Science, Statistics, Business Law

### Tonbridge School

Tonbridge, United Kingdom

House Praepostor (Prefect), Competitive Coding Society, Fencing Team, Tennis, Field Hockey XIII, Berkshire Youth Symphony Orchestra