

Stevin Joseph Sebastian

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SUMMARY

Software engineer with 4+ years building backend systems for finance and wealth-management firms, now a Computer Science MSc graduate of Trinity College Dublin. Looking to build at scale within a company that pioneers technology, with particular interest in systems engineering and AI/ML.

PROFESSIONAL EXPERIENCE

Software Developer

Oct 2024 – Aug 2025

Knowlton International Tax Consultants & Auditors | Dubai, UAE

- Reduced manual VAT review from a full day to minutes by building a Python automation tool that ingests Excel/CSV transaction exports, computes VAT liabilities and anomaly flags, and produces Excel/PDF summaries.
- Restored the company website after a security breach by leading incident response: extracted 41 legitimate pages from 60,000+ spam entries injected into WordPress and rebuilt the site in static Next.js on Vercel.

Backend Software Engineer

Dec 2022 – Jul 2024

WealthBrain | Dubai, UAE

- Delivered daily market data and weekly bank-statement ingestion to 20+ client firms as builder and on-call owner of both production pipelines, from Python extraction jobs (Pandas, xlwings, SIX iD) to Spring Boot microservices; added monitoring and failure alerts, and handled out-of-hours troubleshooting and recovery.
- Accelerated FX and crypto rate retrieval from 1 minute to under 1 second by replacing batch jobs with real-time APIs.
- Sped up bank-statement processing 7.5×, from 12s to 1.6s per statement, with zero data loss across 12 banks by building a Python extraction service (Tabula, Selenium, Pandas) that handles each bank's formats and encodings.
- Maintained and extended the platform's Java/Spring Boot middleware REST APIs, shipping features and fixes in an agile team and profiling slow endpoints, such as a file upload cut from 16s to 2s through parsing optimisations.
- Enabled the platform's European market entry and client growth by leading its integration with wealth-management platforms Objectway and aixigo, building pipelines to exchange market and client data between the systems.

Full-Stack Engineer

Apr 2021 – Dec 2022

CrownShips | Dubai, UAE

- Replaced manual record-keeping across several departments as sole developer of 4 internal apps (React, Redux, Node.js/Express, MongoDB) for tenders, inventory approvals, task tracking and vendor monitoring.
- Streamlined collection of financial data from websites and tax and purchase-order data from PDF invoices by building Python scrapers (Scrapy, Selenium, BeautifulSoup) that loaded structured records into SQL databases.

PROJECTS

SmartEnoughCity: Dublin Smart-City Platform (10-person team) [\[link\]](#)

Trinity College Dublin, 2026

- Detected bus, train, tram and road disruptions every 5 minutes by leading a Spring Boot engine that applies per-mode delay thresholds, links incidents to large events within 2 km, merges duplicates and emails reroutes to affected users.
- Automated ingestion of 10 transport and city data feeds by designing a Python scheduler deployed as Helm-managed Kubernetes CronJobs on four cadences (1 minute to monthly), with per-feed toggles and error isolation between feeds.

Globally Distributed Traffic Booking Service (6-person team)

Trinity College Dublin, 2026

- Deployed all 9 microservices across 3 regional Kubernetes clusters, each running 2 replicas with health checks and resource limits behind an NGINX load balancer.
- Made cross-region bookings fault-tolerant by co-building a saga over Kafka, so a journey spanning two regions is booked in both or neither; tested by crashing pods, stopping Kafka and cutting off a region.
- Raised booking throughput 6.6× and cut median latency under sustained load from 24s to 81ms by reusing one Kafka connection instead of opening one per request; all 5,000 bookings in a concurrent burst succeeded.

SKILLS

Languages: Python, Java, JavaScript/TypeScript, SQL, Bash

Backend & Distributed Systems: Spring Boot, FastAPI, Microservices, Kafka, Redis, PostgreSQL, MongoDB

DevOps & Infrastructure: Docker, Kubernetes, Helm, Infrastructure as Code, NGINX, CI/CD (GitHub Actions), Linux

Testing & Delivery: pytest, JUnit, Jira, Agile (Scrum, Extreme Programming)

EDUCATION

MSc Computer Science (Intelligent Systems), Distinction | Trinity College Dublin

Sep 2025 – Sep 2026

- Dissertation: *Between-Session Reliability of Speech-Tracking Temporal Response Functions in a Dichotic-Listening Task*; currently preparing it for publication as a paper.

BSc (Hons) Computer Science, Upper Second Class (2:1) | The University of Manchester

Sep 2017 – Jul 2020