Jaden Straw

Aspiring Software Engineer | Final-Year Bachelor's Student in Information Technology

Education

Bachelor's Degree in Information Technology

North West University, Expected Graduation: December 2025

- Comprehensive coursework in programming, data analysis, systems design, artificial intelligence, and business communication

Key Courses

- Programming & Software Development - *Introduction to Programming, Object-Oriented Programming, App Development, Data Structures & Algorithms, Advanced Databases*
- Data Analysis & Decision Support - *Data Analytics, Descriptive Statistics, Decision Support Systems I & II*
- Systems & Networks - *Systems Analysis and Design, Computer Networks, Operating Systems*
- Artificial Intelligence & IT - *Artificial Intelligence, IT Developments*
- Business & Communication - *Financial Accounting, Business Management, Problem Solving for Managers*

Projects

- Cinema Ticket Booking System - Designed and implemented a basic ticket booking system as part of the System Analysis and Design I & II course. Database design skills were used along with C# and Microsoft SQL Server.

Work Experience

Internship: Web Development

StratuSolve, Pretoria, December 2022 & July 2024

- Gained hands-on experience in Agile software development processes
- Collaborated with cross-functional teams to deliver high-quality web applications using NodeJS and SvelteKit

Projects: Freelance

- Market-Making TradeBot - Built a trading bot for Luno and VALR exchanges using API calls and WebSocket integration using Python and Docker on a self-hosted, Cloudflare Linux platform
- Automated Data Ingestion for Logistics Operations - Created a turnkey web scraping solution through the implementation of Beautiful Soup 4 and Django REST in Python with SvelteKit and PostgreSQL to consolidate logistics data with third-parties and automate invoicing in Sage200 Evolution
- Private Lesson Logging System (TrueIQ) - Developed a logging system to record subjects and hours for an independent education group to facilitate lesson invoicing using Python and PostgreSQL

Technical Skills

- Programming Languages - Python, Java, JavaScript/ TypeScript/ NodeJS, C#, C++
- Version Control & DevOps - Git, GitHub (branch merging, conflict resolution, GitHub Actions for automated deployment), Docker
- API Development - Django REST Framework, Java Spring Boot, WebSocket Integration
- Database Design & Management - PostgreSQL, MySQL, Microsoft SQL Server, SQLite, Redis
- Frontend Development - SvelteKit, UI/UX Design
- Cloud Services - Microsoft Azure (Web App deployment, PostgreSQL integration), Google Cloud SQL (BigQuery pipelines), Vercel (Frontend deployment)
- Platforms - Linux (Ubuntu), Windows
- Network & Security - Cloudflare Zero Trust Tunnels, Domain configuration (GoDaddy), SSH
- Automation & Tools - Excel (expert), VBA Macros, Beautiful Soup 4 & Selenium (web scraping), Slack Integration

Other Skills & Areas of Interest

- Strong interest in backend development, particularly API design and server-side architecture
- Quick learner with a passion for continuous improvement and innovation.
- Familiarity with Agile methodologies and teamwork in software development.
- Strong problem-solving abilities and attention to detail.
- Excellent verbal and written communication skills.

Certifications & Achievements

- Golden Key Award Membership Certificate (2023)
- Excel on Steroids (March 2022)
- Azure Security Engineer Associate Certificate (AZ-500) - *Currently In progress*

Personal Details

Full name and surname: Jaden Straw
Nationality: South African
Languages: English (Home Language), Afrikaans (First Additional Language)

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GitHub: https://github.com/jaden-straw
Online CV: https://jaden-straw.github.io

References & Addenda

- Reference letter from StratuSolve (Pty) Ltd.
- Reference letter from Straw Lamb (Pty) Ltd.
- Reference letter from TrueIQ
- Reference letter from North-West University
- Certificates of additional courses completed
- National Senior Certificate
- Golden Key Award Membership Certificate