Wilbert Cornelius

Full-stack Software Engineer

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About Me

Full-stack developer with experience building web platforms and mobile applications. Proficient in designing and integrating RESTful APIs to support seamless front-end and back-end functionality.

Careers

Software Engineer Intern

Blue Ocean IT Sdn. Bhd.

Kuala Lumpur, Malaysia

July 2024 - November 2024

- Reduced page load times by ~90% with AJAX-based data fetching and error handling.
- Cut data fetching time by ~50% through T-SQL and backend optimizations.
- Automated daily reporting using Python and GitLab APIs.
- Integrated Django authentication with corporate LDAP for centralized access control
- Techs Used: Angular, Django, Python, RESTful APIs, Git, GitLab, SQL Server, LDAP, HTML, CSS, JavaScript.

Part-time Software Engineer

Blue Ocean IT Sdn. Bhd.

Kuala Lumpur, Malaysia

November 2024 - May 2025

- Resolved recurring bugs and improved backend reliability across Django services.
- Reduced system errors and improved performance with optimized SQL queries.
- Enhanced authentication stability for external API interactions.
- Developed multiple Python microservices with secure, token-based communication.
- Reduced frontend bugs and enabled new features in Angular-Django integration.
- Techs Used: RESTful APIs, Git, GitLab, Microservices, SQL Server, APIs, Angular, Django.

Projects

InLancing - AI-Powered Anonymous Freelancing Platform

- Built a full-stack freelancing platform with AI-powered task generation (Google Gemini 2.5), real-time WebSocket chat, and Azure DevOps repository management.
- Implemented milestone-based payment system with multi-stage workflows, bid management, and role-based access control for Clients and Freelancers.
- Developed comprehensive task management system with bidding workflows, acceptance processes, quality reviews, and automated email notifications.
- Achieved containerized deployment with Docker and Azure Container Registry, demonstrating enterprise-grade system design and API integration.
- Skills Used: Python, Django (REST Framework, Channels, Templates),
 TypeScript, Next.js & React, PostgreSQL, Docker, Azure (Container Registry,
 DevOps API), AI Integration (Google Gemini API), RESTful APIs & Web-Socket Communication, Git Version Control, Tailwind CSS, Authentication & Authorization (JWT, RBAC), UI/UX Design.

Portfolio Website

- Built a responsive portfolio website with SvelteKit and Tailwind CSS.
- Implemented modular components, smooth animations, and theme switching.
- $\bullet\,$ Created a Typst-based resume generator using shared JSON data.
- **Skills Used:** SvelteKit, TypeScript, Tailwind CSS, Mode Watcher, Vite, HTML, CSS, Git, Intersection Observer API, Typst, Vercel.

doc2pdf

- Created a Linux-based Python tool for converting various document formats to PDF while preserving input structure.
- Implemented support for processing files from multiple sources including directories and ZIP archives.
- Offered both CLI and GUI interfaces, along with a Docker image option, to enhance accessibility.
- Skills Used: Python, Linux, File Handling and Processing, LibreOffice Integration, Multithreading, Streamlit, Docker, Configuration Management.

Education

Bachelor of Science (B.S.) in Software Engineering

Asia Pacific University | De Montfort University

CGPA: 3.67 / 4

Kuala Lumpur, Malaysia

Sept 2022 - April 2026

• Vice Chancellor's List (2022 - 2023)

Experiences

HackInsan

2024

Winner

Permata Insan

- Among over 200 competitors, secured 1st place in the category and 3rd overall.
- Developed PemTeach, a teacher support tool for volunteer educators.
- Delivered a cross-platform solution using Flutter and Flutterflow.

GCPBoleh Cloud Challenge (Season 5)

2023

Participant

Google Developer Groups KL

- Earned 10+ Google Cloud skill badges through hands-on labs.
- Built cloud solutions with Compute Engine, Cloud Storage, and Firebase.
- Explored data analysis and machine learning with BigQuery and TensorFlow.

Skills

Programming Languages: Python | TypeScript | JavaScript | Java | SQL | HTML & CSS | Dart | C# | R | C++

Frameworks & Libraries: Django (REST Framework, Channels, WebSockets) | Next.js | React | SvelteKit | Tailwind CSS | Flutter | React Native | Angular

 ${\bf Databases:} \ \ {\bf Postgre SQL} \ | \ {\bf MSSQL} \ | \ {\bf Firebase}$

DevOps & Cloud: Docker & Container Orchestration | Azure (DevOps, Container Registry, API Integration) | Git (Github, Gitlab) | Vercel

Tools & Technologies: RESTful APIs & WebSocket Communication | AI Integration | Vite | Streamlit

Operating Systems: Windows | Linux (Fedora)

Soft Skills: Adaptability | Communication | Critical Thinking | Documentation | Problem Solving | Project Management | System Design | Teamwork | Time Management

Languages

- English: Full Professional Proficiency (IELTS: 7.0)
- Bahasa Indonesia: Native
- Malaysian: Professional Working Proficiency
- Mandarin: Novice