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Experience

Superbank - Jakarta Selatan

December 2024 - June 2025

Technical Support (Internship)

- **Managed end-to-end deployment** of vendor-provided scripts across **AWS EC2** (Dev/Staging) via **S3 bucket integration**, **WinSCP** file transfers, and **XML configuration adjustments**.
- **Automated deployment workflows** by developing a **PowerShell script** to extract ZIP files and **configuration for deployment processes**, **reducing manual effort by 40%** and accelerating deployment cycles.
- **Resolved production incidents** (e.g., CPU spikes, SQL query bottlenecks) by acting as a technical liaison, **analyzing root causes**, and **escalating issues** via **Jira tickets** to cross-functional teams.

PT XL Axiata Tbk - Jakarta Selatan

February 2024 - June 2024

Fixed Connectivity, ICT & Cloud (Internship)

- Conducted **comprehensive market research** and **data scraping** using **Python**, **BeautifulSoup**, and **Pandas** to identify **growth opportunities** and assess the competitive landscape for satellite products.
- Presented **data-driven findings** and **strategic recommendations** to mentors and senior management to support **informed business strategy** and **product development**.
- Collaborated closely with **cross-functional teams** to ensure timely completion of tasks and seamless **integration of research insights** into project outcomes.

PT Bank Victoria International - Jakarta Selatan

September 2023 - November 2023

Fullstack Web Developer (Internship)

- Developed **dynamic journal booking tables** on the frontend with **Flutter**, integrating advanced **filtering** (by date and booking type), **pagination**, and **soft deletion** functionalities.
- **Integrated the Flutter frontend with backend APIs built in NestJS** and maintained data consistency with **MySQL**, ensuring accurate real-time accounting records.
- Executed **targeted database queries** to correct and optimize data integrity, working in close collaboration with teams to align front-end displays with updated backend data.

MileApp - Jakarta Barat

September 2022 - October 2022

Frontend Web Developer (Internship)

- **Rebuilt and redesigned** critical web pages (**landing, login, and registration**) from scratch using **React** and **styled-components**, contributing to a major UI overhaul aimed at **improving user experience and performance** for field agents and administrators.
- Collaborated remotely with supervisors to integrate the new **React-based frontend** with the platform's evolving product direction, **replacing legacy code with scalable, maintainable components**.

Furaha System - Tangerang Selatan

February 2021 - October 2022

Frontend Web Developer (Part-time)

- Engineered **complex exam pages** for a comprehensive E-Learning platform using **Next.js**, incorporating **navigation bars**, **dynamic question-sidebars**, and **real-time answer tracking**.
- Collaborated with **cross-functional teams** and **maintained regular progress updates**, ensuring alignment with project milestones and timely delivery of platform enhancements.

Education

Universitas Indonesia

Bachelor of Computer Engineering, 3.78/4.0

July 2021 – Present

Awards

Top 10 Finalist Hackathon BI 2024

August 2024

Bank Indonesia

- Top 10 Finalist in **Bank Indonesia Hackathon 2024** out of 2,200 participants and 450+ proposals
- **Spearheaded the development of BitTrack's Frontend and UI/UX**, ensuring a seamless user experience and visually appealing design, while also **driving the business strategy and direction of the product**.

Projects

Restomatic

[SistemBasisData2023/RestoMatic](#) 

- Engineered a responsive and intuitive user interface with **React** and **Tailwind CSS**, leading the frontend development to enhance user engagement.
- Developed a dynamic order cart using **React hooks**, providing users with a clear and real-time overview of their selections.
- Implemented a secure payment system with **frontend validation**, ensuring sufficient balance before processing transactions.

DanceRTOS

[cattyman919/AbsenceSystem](#) 

- Led the end-to-end development of the DanceRTOS attendance system, building both the **Flutter frontend** and **NestJS backend**.
- Engineered a real-time student login system using **MQTT** and **RFID** on an **ESP32**, enabling secure and instantaneous attendance tracking.
- Designed and implemented a dynamic class schedule and attendance table, providing lecturers with an organized and **real-time view of student presence**.

Jaga

[cattyman919/Jaga](#) 

- Led the full-stack development of the Jaga vehicle maintenance app, creating a seamless user experience with **Flutter** and **NestJS**.
- Developed a **GPS-based tracking system** to monitor vehicle mileage and trigger timely service reminders.
- Implemented a **multi-vehicle management system**, allowing users to track and manage maintenance for their entire fleet.

Electronic Vault Lock

[roiit/Electronic-Vault-Lock](#) 

- Authored and optimized the **VHDL code** for the electronic vault lock, ensuring robust and reliable security.
- Conducted extensive simulations in **ModelSim** to validate the system's performance and identify potential vulnerabilities.
- Led the synthesis of the design in **Quartus**, optimizing for area and power to create an efficient and compact solution.

VAIO (Vacuum All in One)

[VAIO-CE/VAIO-Code](#) 

- Architected a modular and scalable codebase in **C++** on the **PlatformIO IDE**, enabling efficient team collaboration and future development.
- Engineered a real-time gyroscope-based control system with **ESP-NOW**, allowing for intuitive and responsive robot control via a wearable glove.
- Implemented a multi-threaded **FreeRTOS** environment to manage concurrent tasks, ensuring seamless switching between autonomous, gesture, and PS4 control modes.

HTTP Server

[cattyman919/http](#) 

- Engineered a **non-blocking, polling-based socket server** in **C** to handle multiple concurrent client connections efficiently.

- Implemented a **custom HTTP parser and response generator**, enabling the server to handle a variety of requests and serve dynamic content.
- Designed and implemented a **binary search tree for dynamic routing**, allowing for efficient and scalable URL-to-file mapping.

Home Server



- Deployed and manage a suite of services including **Jellyfin for media streaming**, **Portainer for Docker container management**, and an **Asterisk SIP server for home VoIP**.
- Configured core network services, including **Samba for local file sharing**, **nginx as a reverse proxy** for simplified service access, and implemented **fail2ban and firewalld** for enhanced security.
- Established a robust data management and remote access strategy using **rsync for automated backups** and **Tailscale** for secure, seamless access to the entire home network from any location.

Achievement and Skills

- **Hard Skill:** Web Development, Android Development, Fullstack Engineer, Networking, Internet of Things, Machine Learning
- **Soft Skill:** Teamwork, Communication, Adaptability, Responsibility, Creativity, Discipline, Honesty
- **Programming Languages:** C, C#, C++, HTML, CSS, Javascript, Python, Typescript, Java, Go, PHP, Dart
- **Database Languages:** PostgreSQL, MySQL, NoSQL
- **Misc:** React, NestJS, NextJS, Flutter, ExpressJs, Docker, Tailwind CSS, Git, Linux
- **Certificate** (2025): Red Hat System Administration I & II (RH134 - RHA) - Ver. 9.3
- **Certificate** (2024): AWS Knowledge: Cloud Essentials
- **Certificate** (2023): CCNA: Enterprise Networking, Security, and Automation
- **Certificate** (2023): CCNA: Switching, Routing, and Wireless Essentials
- **Certificate** (2023): CCNA: Introduction to Networks