AIDAN ALCAYDE

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Education

Technological Institute of the Philippines   **August 2022 – June 2026**
Bachelor of Science in Computer Science   *Cubao, Quezon City*

Ateneo Senior High School   **August 2020 – June 2022**
Science, Technology, Engineering, Mathematics   *Loyola Heights, Quezon City*

Technical Skills

Languages: TypeScript, Java, Python, BASH   **Database**: PostgreSQL, MySQL, MongoDB, SQLite
Frontend: React, Tailwind, HTML/CSS   **Ops**: Docker, GitHub Actions, cPanel, Vercel, Render
Backend: Express, Spring Boot, Flask   **Tools**: Git, SSH, Postman, tmux, Neovim, IntelliJ IDEA

Experience

Backend Development Intern   **January – March 2026**
8Box Solutions Inc.   *Ortigas Center, Pasig City*

- Built and deployed two production Express.js REST APIs using Sequelize ORM with Morgan request logging, implementing JWT-secured resources across two service platforms managing 2.2M+ records.
- Documented all endpoints via OpenAPI 3.0/Swagger UI and generated a Postman collection for frontend integration.
- Managed production deployment to cPanel, configuring the database and Node.js environment via the server shell. Handled versioning, environment variables, and ModSecurity conflicts to resolve API connectivity problems.
- Refactored a legacy database schema using the MySQL CLI, enforcing primary keys, AUTO_INCREMENT constraints, and consistent naming conventions across the full schema.

Projects

slsd | *Python, Typer, asyncio, pytest*   🐍 🐙

- Developed a Linux systemd daemon using Python and asyncio for universal background scrobbling of music from MPRIS-compatible players to Last.fm via D-Bus using dbus-next.
- Added a configurable TOML rule system via tomllib supporting player blacklists and custom scrobble timing via cancellable asyncio timers.
- Published to PyPI with a Typer CLI that auto-installs a systemd service and provides basic CLI functionality; configured GitHub Actions for automated releases and wrote tests with pytest for async D-Bus logic.

Scribe | *Java, Spring Boot, PostgreSQL, React, TypeScript, Docker*   🔗 🐙

- Developed a full-stack, video-synchronized note-taking application with React and Spring Boot, featuring custom chapter parsing and timestamp-seeking.
- Built a hybrid persistence layer toggling between Dexie.js (IndexedDB) for instant guest access and PostgreSQL for cloud storage via a custom Google OAuth2/JWT security bridge.
- Implemented a multi-container architecture with Docker for development and automated deployment pipelines targeting Vercel (frontend) and Render (backend).

LeafRx | *Python, TensorFlow, XGBoost, Flask, TypeScript, React Native, Expo*   🔗 🐙

- Built a mobile app for Philippine fruit tree disease detection across 4 species and 16 disease classes, achieving 97.11% validation accuracy.
- Implemented a two-stage pipeline using YOLOv8 for leaf localization and MobileNetV2 as a fixed feature extractor producing 1280-dim vectors for XGBoost classification.
- Developed a React Native (Expo) frontend with Zustand for state management and SQLite for offline persistence of a longitudinal plant health timeline.

MyAvami | *JavaScript, React, Express, Docker, MongoDB, Mongoose*   🐙

- Developed a full-stack pharmacy management system for inventory, sales, reporting, and POS workflows, containerized with Docker Compose.
- Built a modular Express.js backend with Mongoose and session-based auth via bcrypt, role-based access control, and client-side validation with React Hook Form and Zod.
- Created a React frontend with Vite and Chakra UI featuring POS views, live inventory updates, PDF report exports, and more.