

Steven Liementha

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EDUCATION

Bina Nusantara University GPA: 3.94
Bachelor of Computer Science, Data Science

September 2023 – Present
West Jakarta

PROFESSIONAL EXPERIENCE

Full Stack Engineer as Research and Development Staff

February 2025 – Present

Bina Nusantara University

West Jakarta

- Developed web-based systems for tracking reports and managing ticketing, improving transparency and response times for internal issues.
- Built web-based systems to simplify room inspections and administrative workflows, enhancing operational efficiency for staff.
- Implemented a Line bot to send real-time reminders and notifications for new tickets, ensuring faster response and better coordination.
- Maintained web infrastructure using .NET, NextJS, AngularJS, NestJS and ReactJS for 20 laboratories and handling up to 1,000 concurrent users across campuses.
- Containerized applications with Docker and implemented CI/CD pipelines for automated testing, building, and deployment.

PPTI Teaching Assistant

June 2024 – October 2024

Bank Central Asia

Bogor, West Java

- Provided instruction in Database Technology (MySQL, XAMPP) while designing and grading quizzes for students of PPTI batches 17, 18, and 19.

Laboratory Assistant

February 2024 – February 2025

Bina Nusantara University

West Jakarta

- Handled courses (7–8 classes) including Computer Vision with Python and OpenCV, Database Systems using SSMS and SQL Server, Web Development (HTML/CSS/JS/jQuery), Programming for Business (PHP), and Business Application Development (JavaFX).
- Received Best Assistant Award for contributions to student learning and course facilitation.
- Achieved Best Qualification for completing case-based assessments across multiple advanced modules, including Deep Learning, NLP, Computer Vision, Speech Recognition, Big Data Processing, Network Penetration Testing, and Mobile Cloud Computing (Flutter).
- Conducted a Test Progressive Assistants (TPA) including Game Development using Unity, Desktop Application using ReactJS + Electron + Firebase, Web Development using ReactJS + Go + PostgreSQL, Mobile Development using Kotlin + Android Studio, and Networking using Nginx + Ubuntu Server + Docker + Cisco Packet Tracer.
- Honored with Best TPA Award for completing five major projects, including RPG Game (Unity/C#), Exam System Desktop Application (React/Vite/Rust/Tauri), Spotify Clone (React/TypeScript/Go/Python), Mystic Vine Mobile Game (Android/Kotlin/Firebase), and Networking Project (Cisco/Grafana/Prometheus/Docker).

PROJECTS

DiagnoAI | *React, ICP, Motoko, Fetch.ai, Docker, AI Agents*

Sep 2024

- Built AI-powered healthcare assistant with diagnosis, treatment recommendations, and medicine marketplace.
- Integrated decentralized authentication (Internet Identity) and Motoko smart contracts.

Nekonnect | *React, TypeScript, ICP, Motoko, Python, FastAPI*

Feb 2025 – Mar 2025

- Developed peer-to-peer lending dApp with secure ICP canisters and smart contracts.
- Implemented AI-based face verification and real-time borrower–lender interactions.

Request SLC | *Next.js, TypeScript, Tailwind CSS, WebSockets, Docker*

Jan 2025 - Mar 2025

- Built a request management tool with Kanban workflow, real-time updates, and threaded comments.

Zara Clone | *Next.js, TypeScript, Tailwind CSS, shadcn/ui, Docker, CI/CD*

Apr 2025- May 2025

- Built a responsive Zara-inspired e-commerce platform with dynamic product catalog and shopping cart.

ScanVision Python, Flask, OpenCV, OCR, SQL, AWS	Nov 2024
<ul style="list-style-type: none"> Developed web-based OCR and document scanning tool with image filters and PDF conversion. Implemented text extraction and multi-page document support for digitization. 	
Mystic Vine Kotlin, Firebase, Provider	Aug 2024 - Sep 2024
<ul style="list-style-type: none"> Created a gamified quiz app with time-based scoring, party modes, and leaderboard rankings. Implemented Firebase Realtime Database for multiplayer sync and scalable backend. 	
Room Checklist React Router v7 Framework, Typescript, shadcn/ui, NestJS, Docker	July 2025 - Aug 2025
<ul style="list-style-type: none"> Full-stack web app for managing room check-ins/check-outs with inventory tracking and audit history. 	
Line-Bot Python, FastAPI, PostgreSQL, Line API	Aug 2025 – Sep 2025
<ul style="list-style-type: none"> Developed Line messaging bot for automated reminders and ticket notifications. Integrated APIs for schedule and assistant data queries. 	
SRExam React, TypeScript, Rust (Tauri), GraphQL, MySQL	Apr 2024
<ul style="list-style-type: none"> Created desktop exam management system supporting students, assistants, and coordinators. Produced UML diagrams and integrated GraphQL with MySQL backend. 	
DevOps – Harbor & GitHub Runner Ansible, Docker, Harbor, GitHub Actions	Sep 2025
<ul style="list-style-type: none"> Automated setup of GitHub Actions runners and Harbor private container registry. Managed secrets and CI/CD pipelines using Ansible playbooks. 	
ObesityChecker Python, Streamlit, FastAPI, Docker, MLOps	Jun 2025
<ul style="list-style-type: none"> Built ML classifier predicting obesity levels from lifestyle and health metrics. Deployed model with FastAPI backend and Streamlit frontend. 	
BookSmart Python, scikit-learn, Streamlit, MLOps	Apr 2025
<ul style="list-style-type: none"> Developed ML model to predict hotel booking cancellations. Deployed interactive prediction interface with Streamlit. 	

ACHIEVEMENTS

3rd Place - Hackaton 11	March 2025
<ul style="list-style-type: none"> Achieved 3rd Place at CodeFest Competition 2025 (Hackathon 11) with a P2P lending platform built on ICP, designed to bridge finance and trust through blockchain and real-world assets. 	
Best Performing Assistant	August 2024
<ul style="list-style-type: none"> Honored with the Best Performing Assistant Award, standing out for commitment and impactful contributions as a Software Laboratory Assistant among 50 fellow assistants. 	
Best Qualification	August 2024
<ul style="list-style-type: none"> Achieved Best Qualification for completing case-based assessments across multiple advanced technical modules, distinguished among 21 peers in the cohort. 	
Best TPA (Test Progressive Assistant)	August 2024
<ul style="list-style-type: none"> Honored with Best TPA Award for completing five major projects, including RPG Game, Exam System Desktop Application, Spotify Clone, Mystic Vine Mobile Game, and Networking Project, distinguished among 21 peers in the cohort. 	

TECHNICAL SKILLS

Languages: PHP, Java, Motoko, Rust, JavaScript, TypeScript, Kotlin, C, SQL, Java, C++, C#, Python, Go
Frameworks: React, NextJs, Laravel, Springboot, Flask, Angular, ExpressJs, NestJs, .NET Framework, Unity, FastAPI
Technology: TensorFlow, MySQL, PostgreSQL, NoSQL, MongoDB, Firebase