DANENDRA SHAFI ATHALLAH

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EDUCATION

Bandung Institute of Technology (ITB), Bandung　　　　　　　　　　　　　Aug 2023 – Present
Computer Science
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PROFESSIONAL EXPERIENCE

Direktorat Sarana Prasarana & Sistem Informasi ITB, Bandung　　　　　　Oct 2025 – Present
Software Engineer (Contract)
- Built an end-to-end reporting system for the eFacility web platform, defining report workflows from submission to resolution, implementing status transitions, and enabling admin driven technician assignment to support operational task management.
- Developed a data visualization dashboard for administrative users, presenting reports using category-based aggregations, status distributions, priority levels, and time-based trends to support monitoring, performance evaluation, and data-driven decision making.

Bengkel Code, Bandung　　　　　　　　　　　　　　　　　　　　　　Jun 2025 – Oct 2025
Software Engineer (Freelance)
- Contributed to the development of the MPM UPNVJ organization official website by redesign & modifying all pages and implementing mobile-responsive design.
- Integrated website forms with Google Spreadsheet, built downloadable digital booklet pages, and performed testing including error handling simulations to ensure system reliability.

ARKAVIDIA, Bandung　　　　　　　　　　　　　　　　　　　　　　　Nov 2024 – May 2025
Data Science Academya Staff
- Acted as Liaison Officer (LO) for one of 8 participant groups in a 6-day Data Science bootcamp with 24 participants, ensuring effective communication, providing guidance, and addressing participant concerns throughout the project development process.
- Participated as Master of Ceremony during bootcamp sessions, delivering clear announcements and facilitating engaging transitions between sessions involving Data Science expert speakers and mentors.

Comlabs-USDI ITB, Bandung　　　　　　　　　　　　　　　　　　　Oct 2024 – Dec 2024
Computational Thinking Assistant
- Assisting and supervising 2 sessions of 'Berpikir Komputasional' practicum, each with a duration equivalent to 2 credit hours.
- Providing assessments of coding work using the Python application completed by approximately 70 participants across 3 practicum sessions.

PAKANSUPER MARKETPLACE, Bandung　　　　　　　　　　　　　　　Aug 2023 – Dec 2023
Software Engineer
- Develop an innovative web-based marketplace for farmers and breeders, successfully selected as the only project to represent ITB at the campus fair.
- Oversaw all stages of project execution, strategic planning, team motivation, product design, and marketing resulting in strong team collaboration and high campus recognition for delivering real community impact.

ACHIEVEMENTS

1st Place Winner – IT FAIR XIV Hackathon, Bandung   Des 2025

Awarded first place for developing MBG, a data-driven transparency platform for school meal distribution under the theme Smart Solutions with AI & Blockchain.

1st Place Winner – Web Dev Competition S-Technophoria, Purwokerto   Oct 2025

Achieved first place for building KKN-Go, a web platform designed to enhance efficiency, transparency, and real-world impact of university community service programs.

Best Team as Software Engineer Pakansuper 2023, Bandung   Dec 2023

Selected as the best Team among 9 teams 2023 & and represent the campus at bigger events

CREATIONS

Software Projects

Various software projects can be viewed on my GitHub

Research Paper   May 2025 – Jun 2025

Dynamic Programming Approach for Optimizing Stock Trading Profits with K-Transactions (2025) Published on *ResearchGate*

Research Paper   May 2025 – Jun 2025

Exploring Set Theory Operations on Movie Genre Data Acquired from TMDB API (2025) Published on *ResearchGate*

Research Paper   Nov 2024 – Dec 2024

Implementasi Sistem Persamaan Linear untuk Prediksi Pola Recoil Senjata dalam PUBG Mobile (2024) Published on *ResearchGate*

SKILLS

- **Software Development**: React.js, Next.js, Tailwind CSS, Angular.js, Laravel, Fast API, Flask, Prisma, PyQt
- **Database Management**: Neon Console, PostgreSQL, MongoDB, Supabase
- **Programming Languages**: Python, C, C++, Java, Javascript, Typescript, Golang, Haskell, PHP
- **Project & Event Management**: Event planning, team coordination, performance evaluation
- **Scientific Writing**: Data analysis, academic writing, mathematical modeling, research publication
- **Soft Skills**: Leadership, public speaking, problem solving, time management, analytical thinking