ZACHARY SAMUEL TOBING

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PROFILE

Ambitious and detail-oriented Informatics Engineering student at Institut Teknologi Bandung, passionate about software engineering with a strong foundation in backend, frontend, and mobile development. Seeking internship opportunities to apply full-stack development skills, contribute to impactful projects, and grow in a fast-paced engineering environment.

EDUCATION

Institut Teknologi Bandung   **August 2022 - Present**

School of Electrical Engineering and Informatics - Informatics Engineering

- Relevant Coursework: Data Structures and Algorithms, Software Engineering Principles, Artificial Intelligence and Machine Learning, Database Management Systems, Web and Mobile Application Development

EXPERIENCE

PT. Fata Organa Solusi   **June 2025 - Present**

DevOps Intern

- Executed a comprehensive migration of CI/CD infrastructure from Azure DevOps to Jenkins, authoring new declarative pipelines for .NET, Python, TypeScript services.
- Developed a custom Jenkins Shared Library in Groovy to standardize build, test, and deployment stages, reducing pipeline creation time for new projects.

Comlabs-USDI ITB   **Oct 2024 - Dec 2024**

Computational Thinking Assistant

- Supervised undergraduate students during lab sessions focused on algorithmic thinking and structured problem solving.
- Graded coding assignments and projects, offering feedback that improved logical reasoning and implementation.

ORGANIZATIONS

Google Developer Student Club (GDSC) ITB   **Nov 2022 - Present**

Member

- Participated in community events focused on full-stack development, cloud technologies, and machine learning.

LEADERSHIP & VOLUNTEERING

Youth "Movement Team" Division Leader   **Local Church (JKIS) - Bandung, Indonesia**

Empowerment Team Leader   **August 2023 - Present**

- Organize and coordinate youth events, mentoring sessions, and community-building activities.
- Develop a study group to support high school students in preparing for the SNBT national university entrance exam.
- Provide academic and motivational guidance, helping students build confidence and study strategies

PROJECTS

Linkinpurry – LinkedIn-Inspired Web App

Technologies: Node.js, React, Tailwind CSS, ShadCN UI, PostgreSQL, Hono framework, Prisma ORM

- Designed and developed a full-stack social platform as a university project.
- Built using Vite and Docker for efficient development and deployment.

Purrytify – Spotify-Inspired Mobile App

Technologies: Kotlin, Jetpack Compose

- Developed a sleek mobile music streaming app in Kotlin using Jetpack Compose.
- Managed dependencies and builds with Gradle.

TECHNICAL SKILLS

Programming Languages: PHP, Python, JavaScript, Kotlin, Java, TypeScript, C++
Frameworks and Tools: Git, React.js, Node.js, MySQL, PostgreSQL, Jenkins, TensorFlow
Concepts: RESTful APIs, Machine Learning, CI/CD, Agile Development

SOFT SKILLS

- Leadership and Community Engagement (GDSC, Church Youth Empowerment)
- Mentoring and Communication (Comlabs, SNBT support)
- Problem Solving and Critical Thinking (Academic and Projects)
- Collaboration and Teamwork (Project work, GDSC)
- Time Management and Multitasking (Balancing roles and academics)
- Adaptability and Continuous Learning (Learning new stacks/tools quickly)