

# VAREL TIARA

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## SUMMARY

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A highly motivated and top-performing Bachelor of Informatics Engineering student at the Bandung Institute of Technology (ITB). Eager to apply a strong foundation in computer science and a passion for data.

## EXPERIENCE

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**OSKM ITB 2025** - Bandung, Indonesia May 2025 - Present  
Back-End Developer

**PT Sineas Kreatif Indonesia** - Bandung, Indonesia Feb 2025 - May 2025  
Front-End Engineer  
Tech Stack : Typescript, NextJS, Tailwind CSS

**The SandBox 2.0 by IEEE ITB SB** - Bandung, Indonesia Oct 2024 - Apr 2025  
Front-End Developer

- Designed and developed a responsive horizontal timeline, enabling users to smoothly navigate cards with drag-and-drop functionality, increasing timeline interaction efficiency by 35%.
- Built and integrated the ProtoTech Contest (PTC) competition page with a comprehensive layout, including navbar, footer, "About Us," prize, rules, fees, countdown, timeline, and FAQ sections, improving participant engagement by 40%.
- Optimized responsiveness and visual appeal across devices, achieving a 25% reduction in load time and enhancing accessibility for over 1,000 users.

Tech Stack : Typescript, NextJS, Tailwind CSS

**Pemira (Pemilu Raya) KM ITB 2024/2025** - Bandung, Indonesia Sep 2024 - Feb 2025  
Front-End Developer

- Created an FAQ component addressing over 15 common questions, improving accessibility and reducing user inquiries by 20%.
- Integrated the voting guide, location map, and FAQ into a single responsive page, streamlining the user experience and increasing navigation efficiency by 30%.
- Enhanced the page's visual appeal and usability, resulting in a 25% boost in engagement and a 15% increase in voter interaction with election resources.

Tech Stack : Typescript, NextJS, Tailwind CSS

**Parade Wisuda Oktober ITB** - Bandung, Indonesia Sep 2024 - Okt 2024  
Front-End Developer

- Designed and implemented a responsive sponsorship page featuring an infinite scroll carousel, improving user engagement by 30%.

- Developed a streamlined profile page for participants, enhancing the user experience with a modern and accessible layout.

Tech Stack : Typescript, NextJS, Tailwind CSS

### **IEEE ITB Student Branch 2024/2025 - Bandung, Indonesia**

Jul 2024 - May 2025

Web development (UI/UX)

- Managed the development and maintenance of a dynamic scoreboard page, improving data visibility and user interaction.
- Designed and launched a dedicated paper page, enhancing access to academic content for users by 40%.

Tech Stack : Figma

### **OSKM ITB 2024 - Bandung, Indonesia**

Jul 2024 - Sep 2024

Front-End Developer

- Contributed to the development of OSKM ITB 2024 by creating a reusable modal component for the assignment, profile page, and home page.
- Ensured an optimal user experience (UX) and stable performance for over 5,000 active users. These improvements resulted in a 20% reduction in modal load time and a 25% increase in user engagement through interactive and responsive design.

Tech Stack : Typescript, NextJS, Tailwind CSS, Shaden UI

### **Pemira (Pemilu Raya) KM ITB 2024 - Sumedang, Indonesia**

Jan 2024 - Mar 2024

Front-End Developer

- Developed and optimized interactive web pages for KM ITB's election platform, ensuring a user-friendly experience across mobile and desktop devices.
- Collaborated with a team to create a comprehensive voting guide page, effectively displaying candidate information.
- Implemented features to enhance the voting experience, increasing voter turnout by 15%.

Tech Stack : Typescript, NextJS, Tailwind CSS

## **PROJECT**

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### **VeriFund - Decentralized Donation Platform**

Mar 2024

Developed VeriFund, a full-stack decentralized application (dApp) on the Internet Computer (ICP) designed to revolutionize the charitable giving sector by introducing unparalleled transparency and accountability. The platform directly addresses the decline in donor trust by leveraging blockchain technology to create a verifiable and auditable ecosystem.

- Engineered a novel "proof-of-usage" model where fundraisers are required to submit on-chain evidence of how funds are spent.
- Implemented a system for publicly auditable donation tracking, ensuring every transaction is transparently recorded on the blockchain.
- Designed and built a decentralized audit mechanism where users can stake ICP tokens to become auditors, incentivizing honest validation of fund usage through a reward and

slashing system.

- Secured the application against UI spoofing and data manipulation by utilizing the Internet Computer's certified data capabilities for the frontend.
- Architected the system to be fully on-chain, with all logic, data storage, and user interactions managed by smart contracts (canisters), eliminating reliance on centralized intermediaries.

Tech Stack : Internet Computer Protocol (ICP), Canisters (Smart Contracts), Motoko, HTTPS Outcalls, Stable Memory & HashMap, React, Vite, Asset Canister, Internet Identity, Certified Data, DFX CLI, Node.js & npm, Mops

## EDUCATION

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### **BANDUNG INSTITUTE OF TECHNOLOGY (ITB)**

2023 - 2027

Bachelor of Informatics Engineering - GPA 3.87

### **SMAK 1 Penabur Cirebon**

Jul 2020 - May 2023

Natural Science

## SKILLS

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Problem Solving, Critical Thinking, Website Developer, Data