

JUSTIN CHOW

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A highly motivated software engineer enthusiast pursuing a degree in Informatics at ITS. Passionate about developing scalable web applications and contributing to impactful projects like SPMB Surabaya. I thrive in collaborative environments, adapt to new challenges, and communicate ideas effectively to create meaningful impact in technology-driven projects.

EDUCATION

Sepuluh Nopember Institute of Technology

Aug 2023 – Present

- Major : Computer Science, Informatics
- Current GPA: 3.89/4.00 (57 credits)
- Related courses: Web Programming, Object Oriented Programming, Database System, Artificial Intelligence Concepts, Computer Network, Data Structure, Operating System, Software Development Principles

Methodist-3 Senior High School Medan

Jul 2020 – Jun 2023

- Major : Natural Science
- Grade: 97.14/100
- Activities: Class Treasurer 2022-2023, Robotics Club, Designer and Illustrator

EXPERIENCES

Frontend Developer

Surabaya Student Admission Portal 2025 (SPMB Surabaya, formerly PPDB)

Jan 2025 - Present

- Developing and maintaining the official admission portal for new student enrollment across Surabaya under the Surabaya Department of Education.
- Refactored the frontend using Next.js and Tailwind CSS, optimizing performance with Server-Side Rendering (SSR) to efficiently handle high traffic (>20,000 registrants in 2024).
- Applied clean code principles and scalable architecture to ensure maintainability, efficiency, and long-term usability.

Assistant Lecturer of Linear Algebra (International Class)

Aug 2024 – Dec 2024

- Responsible in teaching the students of the assigned class about Linear Algebra.
- Discuss and review quiz questions, and help the students to understand the material well.
- Assist the lecturer in teaching the class during class periods and grading the student's assignments or tests.

Assistant Lecturer of Fundamental Programming

Aug 2024 – Dec 2024

- Responsible in teaching the students of the assigned class the fundamental of programming using C language.
- Discuss and review quiz questions, and help the students to understand the material well.
- Assist the lecturer in teaching the class during class periods and grading the student's assignments or tests.

PROJECTS

UD. Bumi Subur ([website](#))

- Developed a comprehensive web-based ERP system, which consists of POS, Inventory, Sales, and HR ERP modules.
- Create the frontend of the site as the client needs, administration, and also handling the deployment and integration with the backend services.

Tech stacks: NextJS, Tailwind CSS, Figma, Vercel, Postman.

Signify ([website](#))

- Developed a streamlined document-signing web application designed to simplify and accelerate the signing process.
- Designed and created the frontend UI of the site, also integrating the frontend with the site backend endpoints.

Tech stacks: NextJS, Tailwind CSS, Figma, Vercel, Go, Gin, Railway, MinIO, MongoDB, Postman

Personal Landing Page ([website](#))

- Developed my personal landing page using Next.js, TypeScript, and Tailwind CSS for a sleek and efficient user experience.
- Designed to be adaptive across all devices, providing a consistent and user-friendly experience regardless of screen size.

Tech stacks: NextJS, Tailwind CSS, Figma, Netlify

ACHIEVEMENTS

[Scholarship] Bakti BCA Scholarship Awardee

Dec 2024

Bakti BCA is a scholarship program that was issued by PT. Bank Central Asia Tbk. I am selected to be one of the 700 students from over 10,000 applicants to receive this scholarship.

[National] Finalist, Schematics Senior National Programming Contest 2023

Oct 2023

Schematics National Programming Contest (Schematics NPC) is a national-level programming competition organized by the Department of Informatics at the Institut Teknologi Sepuluh Nopember (ITS). This competition assesses logical thinking abilities and the capability to analyze algorithms and programming in solving given problems. Participants in Schematics NPC will be challenged to solve a problem by creating a computer program.

[National] Gold Medalist in Mathematics at OSPAN National Competition

Sep 2022

Olimpiade Siswa Prestasi Akademik Nasional (OSPAN) is a national competition between more than 2500 students all over Indonesia. I won the gold medal in Mathematics which cover topics such as geometry, algebra, number theory and combinatory.

SKILLS

Programming Languages	: Python, C, C++, C#, HTML, CSS, PHP, SQL, Go, Typescript, Javascript, Java
Frameworks/Libraries	: ReactJs, NextJs, VueJS, Tailwind CSS, Bootstrap, NodeJS, ExpressJS, Gin
Tools	: Git, Github, Figma, Docker, Vercel, Netlify, Postman, MySQL, PostgreSQL
Languages	: Indonesian (native), English (professional), Chinese (elementary)

ORGANIZATIONAL EXPERIENCES

Schematics ITS 2025 IT Dev Expert Staff

Mar 2025 – Present

Frontend Developer

- Conducted code reviews to uphold coding standards, best practices, and maintain a clean, scalable codebase.
- Performed quality control to identify and resolve potential issues, ensuring optimal website performance and reliability, and also reviewed responsive, user-friendly features to ensure seamless functionality across various devices and browsers.

Ini Lho ITS 2025 IT Dev Expert Staff

May 2024 – Feb 2025

Frontend Developer

- Conduct code reviews to ensure adherence to coding standards and best practices.
- Perform quality control to identify and resolve potential issues, maintaining a high standard of codebase integrity.
- Create and review website responsive, user-friendly features, ensuring compatibility across various devices and browsers.

TPKB ITS Staff

Apr 2024 – Dec 2024

Entrepreneurship Division

- Developing and managing entrepreneurial initiatives as well as projects aimed at creating added value or achieving specific business goals.
- Enhancing skills such as negotiation, marketing, financial planning, and financial data management

Schematics ITS 2024 IT Dev Staff

Mar 2024 – Dec 2024

Frontend Developer

- Collaborate with UI/UX designers to translate design concepts into seamless and engaging frontend experiences.
- Implementing responsive design for various device using Tailwind CSS.
- Collaborate with backend developer to integrate website logic.

ITS EXPO 2024 IT Dev Staff

May 2024 – Nov 2024

Frontend Developer

- Collaborate with UI/UX designers to translate design concepts into seamless and engaging frontend experiences.
- Develop and implement animations that bring a dynamic and visually appealing element to the website, enhancing user engagement.
- Create responsive and user-friendly features, and ensuring smooth functionality across various devices and browsers.

UKM EXPO 2024 Web Development Staff

May 2024 – Nov 2024

Frontend Developer

- Translated design concepts into captivating frontend experiences by collaborating closely with UI/UX designers.
- Implemented engaging animations to enrich the website's visual appeal and elevate user engagement.
- Developed interactive features with a focus on user-friendliness, ensuring seamless functionality across different devices and browsers.