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: 3.92/4.00 (80 credits)
- Related courses: Software Design, Web Programming, Object Oriented Programming, Database Management, Machine Learning, Artificial Intelligence Concepts, Network Programming, Computer Network, Data Structure

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 ([website](#))
Surabaya Student Admission Portal 2025 (SPMB Surabaya, formerly PPDB)   **Jan 2025 – Jul 2025**
- 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.
- Applied clean code principles and scalable architecture to ensure maintainability, efficiency, and long-term usability.

Assistant Lecturer of Data Structure   **Jan 2025 – Jun 2025**
- Responsible in teaching the students of the assigned class about Data Structure using C and 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.

Assistant Lecturer of Linear Algebra (International Class)   **Aug 2024 – Dec 2024**
- Responsible in teaching the students of the assigned class about Linear Algebra in English.
- 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

SIM News ([website](#))
- Built a full-stack online news website featuring user authentication, article management dashboard, and role-based access with responsive UI using Next.js, TypeScript, and Tailwind CSS.
- Developed backend REST API with Go (Gin) for auth, article management, and user roles.
- Deployed backend on Azure VM for scalability and reliable access.

Tech stacks: NextJS, Typescript, Tailwind CSS, Figma, React Hook Form, REST API, Go (Gin), PostgreSQL, Azure, JWT, Docker, Nginx

UD. Bumi Subur
- 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, Typescript, Tailwind CSS, Figma, React Hook Form.

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, Typescript, Tailwind CSS, Figma, Vercel, Go, Gin, Railway, MinIO, MongoDB, Postman

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, NuxtJS, Tailwind CSS, Bootstrap, NodeJS, ExpressJS, Laravel, Gin
Tools	: Git, Github, Figma, Docker, Vercel, Postman, MySQL, PostgreSQL, Linux (Ubuntu), Azure VM
Languages	: Indonesian (native), English (professional), Chinese (elementary)

ORGANIZATIONAL EXPERIENCES

Schematics ITS 2025 IT Dev Expert Staff   **Mar 2025 – Present**

Frontend Developer (website)

- Became the lead developer of the official website for Schematics ITS 2025, a flagship event by Informatics ITS featuring national programming competitions, tech seminars, and exhibitions.
- Ensured a responsive and accessible user interface, maintained code quality through reviews, and optimized performance across platforms.

Ini Lho ITS 2025 IT Dev Expert Staff   **May 2024 – Feb 2025**

Frontend Developer (website)

- Developed and maintained the official website for Ini Lho ITS! 2025, an annual nationwide outreach event introducing Sepuluh Nopember Institute of Technology (ITS) to high school students through open campus tours, tryouts, and educational expeditions.
- Ensured responsive and cross-browser compatible design, while conducting code reviews and quality checks to maintain code integrity and performance.

Schematics ITS 2024 IT Dev Staff   **Mar 2024 – Dec 2024**

Frontend Developer (website)

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

ITS EXPO 2024 IT Dev Staff   **May 2024 – Nov 2024**

Frontend Developer (website)

- Developed the official website for ITS EXPO 2024, a large-scale annual event showcasing ITS students' innovations in art and technology to the public.
- Collaborated with UI/UX designers to bring design concepts to life with responsive interfaces and smooth animations using GSAP.
- Ensured cross-device compatibility and enhanced user engagement through dynamic, visually appealing web experiences.

UKM EXPO 2024 Web Development Staff   **May 2024 – Nov 2024**

Frontend Developer (website)

- Built the official website for UKM EXPO 2024, an annual exhibition introducing student activity units (UKM) to new students at ITS.
- Translated UI/UX designs into responsive and interactive interfaces, with animations to enhance user engagement and visual appeal.
- Ensured smooth functionality across devices and browsers to support a seamless browsing experience.