

# Girvin Junod

• [girvinjunod@gmail.com](mailto:girvinjunod@gmail.com) • [LinkedIn](#) • [GitHub](#) • (+62) 813 8283 5353

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## Notable Experiences

### Backend Engineer (Part-time)

December 2021 - Present

#### *Kenangan.com*

- Developed a payment gateway to handle user transactions such as payments and disbursements.
- Implemented push notification functionalities using Firebase Cloud Messaging for various events.

### Computational Science and Engineering Laboratory Assistant

August 2021 – Present

#### *Institut Teknologi Bandung*

- Selected from 60+ applicants and completed the selection process with the highest score.
- Responsible for facilitating the teaching and grading for multiple courses that are under the Computational Science and Engineering Laboratory such as Discrete Mathematics and Algorithm Strategies.

### Practice Assistant of Introduction to Computation Course

August 2020 – December 2020

#### *Institut Teknologi Bandung*

- Selected from more than 100 applicants to guide and teach more than 50 students the core concepts of programming in the Introduction to Computation course.
- Responsible for overseeing and grading the practical exams for the Introduction to Computation course.

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## Notable Projects

### [Diorama.id](#)

- Developed a full stack mobile application that is able to save and share the user's photos, videos, and messages.
- Responsible for building and developing the backend of the application using Golang and PostgreSQL.

### [Dorayaki Factory Server and Dashboard](#)

- Developed an API for a dorayaki factory to serve the logistics of various dorayaki online stores.
- Created an interactive dashboard that allows admins to easily keep track of supplies and requests from stores.
- Implemented data caching using Redis to boost the dashboards performance and load time.

### [Chadbot](#)

- Developed a web-based chatbot application that is able to add, update, delete, and show the user's to-do-list.
- Worked in a team of three people to build the app using tools such as React, Express.js, and MongoDB.
- Responsible for the backend and implemented the algorithm to parse the user's input for the chatbot.

### [BantuKurir](#)

- Developed a web-based application with animations to solve the Traveling Salesman Problem for couriers.
- A solo project built using React for the front end, Flask for the back end, and MySQL for the database.
- Implemented graphs and animations to the application which greatly increases user's engagement.

### [CRT Solver](#)

- Developed a web-based application to solve the Chinese Remainder Theorem based on user input.
- A solo project written in JavaScript using React with Bootstrap for the front end and Express.js for the back end.

### [Shortest Path Finder](#)

- Developed an interactive web app using Vue.js that is able to find the shortest route between two coordinates.
- Worked in a team of two people and was responsible for developing the back end using Python and Flask.
- Implemented the A\* search algorithm to increase the application's overall pathfinding performance.

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## Skills

### Programming Languages:

Go, JavaScript, TypeScript, Python, PHP, Java, Kotlin, Dart, C#, C/C++

### Technologies:

Node.js, Redis, Docker, MySQL, PostgreSQL, MariaDB, MongoDB, Next.js, Vue.js, React, Express.js, Flask, Flutter, Git

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## Education

Institut Teknologi Bandung – Bandung, Indonesia

2019 – 2023 (expected)

Bachelor of Computer Science, Informatics Engineering

GPA: 3.79/4.00

### Relevant Coursework:

Web-based Application Development, Algorithm & Data Structure, Database, Database Management, Algorithm Strategies, Object Oriented Programming, Software Project Management, Computer Networks, Software Engineering, Programming Fundamentals, Computational Logic, Human Computer Interaction, Operating System.