

# Darel Gunawan

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## EDUCATION

### University of Washington

Seattle, WA

*B.S Computer Science (GPA: 3.97)*

*Sep. 2021 – Dec 2024*

**Relevant Courses:** Computer Networks, Distributed Systems, Operating Systems, Database Internals, Systems Programming, Web Programming

## WORK EXPERIENCE

### Undergraduate Research Assistant

Sept 2024 – Present

*University of Washington*

- Conducted research in collage generation from fabric scraps provided by users guided by CLIP embeddings, LLMs, and Computer Vision Models.

### Undergraduate Teaching Assistant

Jan 2023 – Present

*University of Washington*

- Computer Networks (2 quarters), Intro to Java (4 quarters), Foundations of Computing II (1 quarter)
- Designed grading rubrics and autograders using **Java**, **Python**, and **Docker** reducing 50% in grading time.

### Software Engineer

Aug 2024 – Sept 2024

*LSASimplified.com*

- Developed responsive full stack website using **React.js**, **Tailwind CSS**, **Clerk**, **Stripe**, and **PostgreSQL**.
- Implemented website delivering the project under budget by **50%** serving LSAT test for **1,000+** users monthly.

### Software Engineer Intern

May 2022 – Aug 2022

*Metalogic Infomitra (customized banking and financial software solutions)*

- Developed a real-time error detection system for a distributed payments system using **Python** and **SQL**.
- Created a notification system using Gmail and Whatsapp reducing transaction handling to under **10** minutes

## PROJECTS

### Fakemon AI Generator | *Python, Flask, PostgreSQL, OpenAI, StabilityAI, NGINX*

- Developed a full-stack application creating custom Pokémon cards based on user sketches using **Flask** for **REST API**, **OpenAI** and **StabilityAI** hosted in **AWS**.
- Fine-tuned a stable diffusion model using **LoRA** to generate Pokémon cards using **StabilityAI**.

### Automatic Course Registrator | *Python, Selenium, Gmail API*

- Developed an automated class registration system using **Python**, **Selenium** and Gmail API to detect availability.

### Database Lab | *Java, Databases*

- Implemented basic Database Management System (DBMS) with caching, concurrency control, and recovery.

### Distributed Key-Value Store | *Java, TCP/IP, Networking Protocol, Concurrent Programming*

- Designed and implemented a linearizable, fault-tolerant distributed system for a key-value store in **Java**

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL (PostgreSQL), noSQL, JavaScript, TypeScript, HTML/CSS, OCaml

**Technologies:** Git, Docker, Google Cloud Platform (GCP), Amazon Web Services (AWS), React.js, Next.js, Node.js, Express.js, Flask, JUnit

## EXTRACURRICULAR

### Web Development Officer

Jan 2023 – Present

*Indonesian Student Association @ UW*

- Revamped ISAUW website using **Typescript**, **React** and **Tailwind CSS**, increasing community engagement
- Boosted website traffic, facilitating connections for new students with the Indonesian community