Bernico Jansen Chandra
Software Engineer

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SUMMARY

UCSD Computer Science senior with a 3.967 GPA with experience in Full Stack Development and Distributed System. Passionate in building scalable and fault-tolerant software using technologies like Go, gRPC, and AWS. Proven track record from internships and projects. A self-driven problem solver passionate about applying software engineering, creative thinking, and adaptability to new technologies to solve real-world challenges.

EDUCATION

University of California - San Diego (UCSD)
SEPTEMBER 2022 - JUNE 2026 (EXPECTED)

- Bachelor of Science in Computer Science; GPA: 3.967 (Units finished: 126.00).
- Revelle College Provost Honor: 2022-25
- Relevant Courseworks: Systems Networking, Operating System, Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering.

Code2Career — Participant
OCTOBER 2025 - DECEMBER 2025

- Selected as one of 250 students from 2,100+ applicants for a 10 week mentorship with a Google Software Engineer focused on improving data structures and algorithms.
- Collaborate with engineer to solve coding challenges to strengthen problem solving and communication skills.

WORK EXPERIENCE

KPMG — IT Enabled Transformation Intern
JAKARTA, INDONESIA; JUNE 2024 - AUGUST 2024

- Assisted in a client-facing project as a business analyst with Salesforce, communicating with the developers.
- Worked in a team to debug ServiceNow pipelines using JavaScript: debugging a bug that hadn't been solved since the start of the project.
- Worked in a team to manage databases in SAP.

Kreatif Global — Software Engineer Intern
JAKARTA, INDONESIA; JULY 2023 - SEPTEMBER 2023

- Prototyped an OCR project utilizing Tesseract and the Python library PyTesseract to process invoices.
- Contributed in debugging a MariaDB database bug.

PROJECTS

AloAuto — Go-React Native Mobile App Startup
JUNE - SEPTEMBER 2025

- Full-stack distributed system development of gRPC backend microservices and React Native frontend that connects nearby workshops and vehicle owners in need.
- Consistent storages of profiles with address geocoding with Google Maps to accurately search nearby workshops.
- Rich, consistent, and secure ordering and workshop scheduling system for ease of use by both sides.
- Pub/Sub system across the microservices using Redis and WebSocket to have concurrent notification system.
- github.com/BernicoJC/AloAuto (Email for access)

TritonTube — Go, gRPC, Consistent Hashing, AWS
MARCH - JUNE 2025

- HTTP web server using Go that allows uploading and viewing videos, stored in MPEG-DASH format, detached from the independently improveable backend servers.
- Scalable content storage with consistent hashing to allow multiple load-balanced storage servers.
- Fault-tolerant metadata storage that uses RAFT system of multiple servers deployed in AWS.
- github.com/BernicoJC/tritontube-cse124 (Email for access)

Portfolio Website — React.js, Flask, SQLite
DECEMBER 2024

- React.js frontend, and Flask and SQLite backend website deployed with Heroku where I display notable projects.
- Easy-to-update backend storage to frontend display system for projects and resume.
- Feedback feature with reCAPTCHA.
- github.com/BernicoJC/Portfolio-Frontend and github.com/BernicoJC/Portfolio-Backend

SKILLS

General Software Skills: Algorithms, Data Structures, Linux, AWS and GCP, Redis, Bash, Copilot AI, Pandas, Operating System

Backend Development: Networked Services: gRPC with Go, IP aggregation, CURL and HTTP Protocol, Horizontal Scaling, RAFT

Full-Stack Web / Mobile Development: React.js / React Native, Flask / Golang Backend, Team Leadership; CI/CD pipeline; Agile; Scalable and Fault Tolerant Distributed Systems Design, RESTful API and HTTP Server, Pub/Sub System; Unit Testing

Programming Languages: Python, Java, JavaScript, C, C++, C#, Go, PostgreSQL, SQLite

Machine Learning: NumPy, PyTorch, Recommender System, Probabilistic Model