Bernico Jansen Chandra
Software Engineer

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SUMMARY

UCSD Computer Science senior with a 3.966 GPA with experience in Full Stack Development and Distributed System. Passionate in building scalable and fault-tolerant software using technologies like Go, gRPC, React, and AWS. Proven track record from internships and personal projects. A self-driven problem solver passionate about applying software engineering to real-world challenges.

EDUCATION

University of California - San Diego (UCSD)

SEPTEMBER 2022 - JUNE 2026 (EXPECTED)

- Bachelor of Science in Computer Science; GPA: 3.966 (Units finished: 126.00).
- Revelle College Provost Honor: 2022–25
- Relevant Courseworks: Systems Networking, Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering

WORK EXPERIENCE

KPMG — IT Enabled Transformation Intern

JAKARTA, INDONESIA; JUNE 2024 - AUGUST 2024

- Assisted in a client-facing project as a business analyst using Salesforce: clearly communicating planned Figma functionalities onto developers.
- Worked in a team to debug pipelines on ServiceNow projects using some JavaScript: successfully debugging a bug that hadn't been solved since the start of the project.
- Worked in a team to carefully manage databases in SAP.
- Their contact: kpmg.com/socialmedia

Kreatif Global — Software Engineer Intern

JAKARTA, INDONESIA; JULY 2023 - SEPTEMBER 2023

- Prototyped an OCR project utilizing Tesseract and the Python library PyTesseract that allows effectively cutting all of the time needed to manually read invoices.
- Contributed in debugging a MariaDB database bug.
- Their contact: kreatifglobal.co.id

PROJECTS

TritonTube — Go, gRPC, Consistent Hashing, AWS

- HTTP web server using Go that allows uploading and viewing of videos, stored in MPEG-DASH format, detached from the backend servers so the latter can be improved independently.
- 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.
- https://github.com/BernicoJC/tritontube-cse124 (please Email me for access)

Portfolio Website — ReactJS, Flask, SQLite

- ReactJS frontend, and Flask and SQLite backend website deployed through Heroku where I display my finished projects and notable assignments.
- 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

Go Display It, Canvas! — Web Extension (HTML and JavaScript), HTTP Request, PrismJS

- A web extension that allows UCSD Canvas to display .go file on the web, allowing students to see the file without downloading it first.
- Uses JavaScript to find the link to the page's undisplayable .go file and HTTP request to it.
- Has permission to Canvas's CDN servers and redirects the requests seamlessly.
- github.com/BernicoJC/GoDisplayItCanvas

SKILLS

General Software Skills: Algorithms, Git, Bash, Linux (Ubuntu); Data Structure; Flutter and Website Extension

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

Full-Stack Web Development: ReactJS Frontend, Flask Backend, Team Leadership; Github pipeline; Agile development; Scalable and Fault Tolerant Systems Design

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