

Bernico Jansen Chandra

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EDUCATION

- **University of California, San Diego (UCSD)** San Diego, California
Bachelor of Science in Computer Science; GPA: 3.966 2022 - 2026(Expected)
 - Revelle College Provost's Honor: 2022-2025 (GPA > 3.5).
 - Relevant Coursework: Systems Networking, Operating System, Design and Analysis of Algorithms, Software Engineering.

WORK EXPERIENCE

- **KPMG – one of the Big Four accounting firms** Jakarta, Indonesia
IT Enabled Transformation Intern Jun 2024 - Aug 2024
 - Debugged ServiceNow pipelines using JavaScript in a team of around 4: successfully debugging a bug that had been unresolved for 3+ months.
 - Communicated with the developers as a business analyst in a client-facing project with Salesforce in a team, successfully helping with the starting programs of the project.
- **Kreatif Global – Indonesian IT company** Jakarta, Indonesia
Software Engineer Intern Jul 2023 - Sep 2023
 - Prototyped an OCR project utilizing the Python library PyTesseract to process invoices, which could effectively cut manual invoice scanning workload by an estimated 30%.
 - Debugged a project's MariaDB database: using SQL queries and table editing to spot and fix the bugs.

VOLUNTEER EXPERIENCE

- **Eta Kappa Nu – CSE Outreach** San Diego, California
Lesson Instructor, Outreach Student Sep 2025 - Dec 2025
 - Designed and taught analogy-centric programming fundamentals lesson to Chollas-Mead Elementary School class of around 20 students with the majority demonstrating strong understanding in post-lesson challenges.

PROJECTS

- **AloAuto – Go-React Native Mobile App Startup** Jun 2025 - Sep 2025
(Please Email me for Github repo access)
 - Full-stack distributed system development of 7 gRPC backend microservices and React Native frontend that connects local workshops and vehicle owners in need.
 - Built consistent storages of user and workshop profiles with address geocoding with Google Maps that allows accurate nearby workshop searching.
 - Implemented a consistent and secure ordering and workshop scheduling system and Redis-WebSocket-powered concurrent notification.
- **TritonTube – Go, Consistent Hashing, and AWS Backend Web App** Jun 2025 - Sep 2025
(Please Email me for Github repo access)
 - HTTP web server using Go that allows uploading and viewing videos, stored in MPEG-DASH format.
 - Implemented horizontally scalable independent content storages with consistent hashing to allow multiple load-balanced storage servers.
 - Maximized data safety with easy backup using fault-tolerant (RAFT) metadata storages deployed in AWS.
- **Additional Project:** Projects Portfolio Website (React, Flask, SQLite, Heroku).

SKILLS AND OTHER

- **Programming Languages:** Python, Java, JavaScript, C, C++, C#, Go, PostgreSQL, SQLite
- **General Software Skills:** Algorithms, Data Structures, Linux, AWS, GCP, Redis, Git, Bash, OS
- **Backend:** gRPC, Flask, RESTful API and HTTP Server, Horizontal Scaling, Fault Tolerance
- **Full-Stack:** React.js / React Native; CI/CD pipeline; Agile; Distributed Systems Design
- **Machine Learning:** scikit-learn, Recommender System, HMM, Bayesian Model, Reinforcement Learning
- **Interests:** History, Swimming, Tennis, Philosophy, Drawing, Sandbox Games