Bernico Jansen Chandra

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EDUCATION

- **University of California, San Diego (UCSD)** — San Diego, California
  Bachelor of Science in Computer Science; GPA: 3.967 — *2022 - 2026(Expected)*
  - Revelle College Provost Honor: 2022-2025 (GPA > 3.9).
  - 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