

# Bernico Jansen Chandra

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## EDUCATION

### • University of California, San Diego (UCSD)

*Bachelor of Science in Computer Science; GPA: 3.969*

San Diego, California

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