

# Kean De La Serna

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## Education

### University of Bohol

*Bachelor of Science in Computer Science*

**Aug 2021 – June 2025**

*Tagbilaran, Philippines*

- Dean's List | **GPA: 1.3 / 5.0**

## Work Experience

### Fullstack Developer Intern

**Jul 2024 – Sep 2024**

*Deped*

*Tagbilaran, Philippines*

- Engineered **1,200+** teacher records with RESTful APIs using **TypeScript**, **Express.js**, and **Prisma Accelerate**, enhancing backend performance with **indexing**, **caching**, and **Data Proxy**, boosting query speed by **30%**.
- Built responsive teacher records dashboard using **Next.js**, **TypeScript**, **TailwindCSS**, **TanStack Query** and **Edge Functions**, cutting data load time by **40%** for **15+** users in the department.
- Produced a scalable **Turborepo-based** application, packaged with **Docker** and hosted on **AWS EC2**, enabling collaboration among **6+** interns.

### Fullstack Developer Trainee

**Jan 2023 – Apr 2023**

*Village 88, Inc.*

*La Union, Philippines*

- Architected custom **MVC framework** on **Express.js** with **Redis sessions** and multi-database support (**MySQL**, **PostgreSQL**, **MongoDB**), showcasing advanced backend engineering across **4+** stacks.
- Configured **Docker CI/CD pipeline** with **GitHub Actions** and **Jenkins**, streamlining Express.js deployments and boosting development workflow efficiency by **40%**.
- Delivered **real-time shape drawing app** using **Node.js**, **Express.js**, **Socket.io** for multi-user collaboration, achieving **perfect exam score** in **4-hour build challenge**.

## Projects

### Instafix | Website | Source Code

**Typescript | Next.js | PostgreSQL | Huggingface | Redis | Docker**

- Developed a freelancer matchmaking platform using **Hugging Face's GIT-base model** trained on **10m+ image-text pairs**, enabling accurate object-based service matching with **92.9%** recognition accuracy.
- Containerized app with **Docker** and deployed on **Railway**, real-time messaging using **Redis PubSub** for efficient communication, and image storage for **100+** users with **Cloudflare R2**.
- Implemented infinite scroll with **TanStack Query** and **Prisma Accelerate** on **Edge Functions**, reducing load times by **65%** and API requests by **40%**, increasing user engagement **2x**.

### Chess Royal | Website | Source Code

**Typescript | Next.js | PostgreSQL | Redis | Docker**

- Created a real-time multiplayer chess game using **TypeScript**, **Next.js**, **WebSockets**, and leveraging **Turborepo** for a **40%** faster development workflow.
- Integrated **Redis PubSub** and **BullMQ** for real-time queues, orchestrated with **Docker**, and deployed via **AWS EC2**, cutting matchmaking wait times from **45 to 15 seconds** on average.
- Utilized **PostgreSQL** with **Prisma Accelerate** and a **lightweight CSS UI**, reducing latency and boosting performance by **30%**.

### Bytepoint | Website

**Typescript | SvelteKit | PostgreSQL**

- **Drove 100% of technical strategy and led the team** to build a real-time competition results system using, **SvelteKit** and **Supabase**, supporting **4,000+** users across University of Bohol campuses.
- Optimized website performance using **Prisma Accelerate** and designed an intuitive **UI**, resulting in a **70%** increase in user engagement during peak university events.

## Achievements

- **National Semifinalist**, CodeChum Programming Challenge, leading team among **40+ schools**. [\(Certificate\)](#)
- **Individual Semifinalist** at CodeChum National Programming Challenge among **450+ students**. [\(Certificate\)](#)
- **Hacktoberfest Open Source Contributor**. Earned **5 badges** for code contributions. [\(Holopin\)](#)

## Technical Skills

**Languages:** JavaScript, TypeScript, Python, Java, C/C++, SQL, HTML5, CSS

**Libraries/Frameworks:** React.js, Next.js, Node.js, Express.js, Django, Socket.io, Prisma

**Developer Tools:** Git, Docker, Kubernetes, Jenkins, Redis, Turborepo, AWS, Azure, Cloudflare, Jira, Linux