

# Sean Karl Tyrese G. Aguilar

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## OVERVIEW

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Software Engineer and Computer Engineering graduate with experience in full-stack web development, backend engineering, REST API integration, workflow automation, and cloud deployment. Proficient in TypeScript, JavaScript, Next.js, NestJS, React, Node.js, PostgreSQL, Supabase, Google Cloud Platform, Docker, and GitHub Actions. Experienced in building production features, multi-tenant applications, CI/CD pipelines, automation workflows, and scalable backend systems across tax technology, SaaS, finance automation, and digital platforms.

## PROFESSIONAL EXPERIENCE

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### Software Engineer

May 2026 – Present

*Tax Maverick*

*Texas, United States*

- Develop production features for Tax Maverick using Next.js, TypeScript, and Supabase.
- Build tax strategy recommendation workflows with calculated plan suggestions.
- Maintain and improve referrals, payments, notifications, and Resource Center workflows.

### Junior Automation Engineer

February 2026 – May 2026

*Techflow.ai*

*Darmstadt, Germany*

- Automated multi-phase data pipelines using Make.com, Xano, and Apify, reducing manual data entry by 70%.
- Integrated REST APIs across platforms like Gmail, Slack, and Billbee, enabling seamless automated data flow.
- Built a no-code finance automation system, automating invoice classification and bank reconciliation for a client.

### Full-Stack Developer Intern

January 2026 – May 2026

*Symph*

*Cebu City, Philippines*

- Contributed to CourtHub and Find My Shots using NestJS, Next.js, and Google Cloud Platform.
- Built backend features for pricing, rescheduling restrictions, and transaction fee systems in a monorepo.
- Configured GCP Cloud Build CI/CD pipelines with tag-based multi-trigger deployments.

### Web Developer

April 2023 – May 2026

*Today's Carolinian, University of San Carlos*

*Cebu City, Philippines*

- Built and deployed 4+ web apps using Next.js and Nuxt.js, boosting engagement by 60%.
- Developed scalable REST APIs with Node.js and Express, reducing load times by 30%.
- Led Scrum feature sprints, ensuring on-time delivery aligned with editorial goals.

## LEADERSHIP & VOLUNTEER EXPERIENCE

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### Community Volunteer

July 2025 – Present

*OWASP Cebu*

*Cebu City, Philippines*

### Vice President and Application Development Lead

July 2025 – May 2026

*Computer Driven Enthusiasts, University of San Carlos*

*Cebu City, Philippines*

- Mentored 60+ student developers in full-stack development and Git workflows through hands-on internal projects.
- Designed and led high-level initiatives, improving member participation and project output.

### Chief Technology Officer

October 2024 – May 2025

*Google Developer Groups on Campus, University of San Carlos*

*Cebu City, Philippines*

- Orchestrated 6+ technical workshops on cloud, AI, and front-end frameworks attended by 200+ students.
- Spearheaded strategic planning for campus tech events and project rollouts, aligning efforts with academic and industry trends.

### President and Software Lead

August 2024 – May 2025

*Computer Driven Enthusiasts, University of San Carlos*

*Cebu City, Philippines*

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Python, Java, Dart, C, C++, MATLAB, SQL, x86 Assembly  
**Frameworks:** Next.js, NestJS, React, Nuxt.js, Vue.js, React Native, Node.js, Tailwind CSS  
**Cloud & DevOps:** Docker, Google Cloud Platform (GCP), Vercel, GitHub Actions  
**Tools & Platforms:** Git, GitHub, Claude Code, Antigravity, Cursor, Linux, Drizzle, PostgreSQL, Supabase

## PROJECTS

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**TapOK** | *Next.js, NestJS, TypeORM, PostgreSQL, Firebase Auth, TanStack Query, Tailwind CSS*

- Built an event-first coordination platform where a Chief creates a Drop (plan) and a Crew commits with a binary In/Out status, eliminating RSVP ambiguity across friend groups.
- Implemented role-based access control via NestJS Guards and custom decorators, with Firebase Authentication as the identity layer and server-side token validation on all protected routes.

**Courthub** | *Next.js, NestJS, Supabase, GCP*

- Engineered backend features including hybrid pricing, reschedule restrictions, and configurable transaction fees across a multi-tenant court booking platform.
- Set up GCP Cloud Build CI/CD pipelines with tag-based deployments and Secret Manager integration, and bootstrapped the staging database from production schema.

**Find My Shots** | *Next.js, NestJS, Supabase, GCP*

- Contributed frontend and backend features including configurable watermark positioning, timestamp-based image search for runners, and promo code functionality across a photography marketplace.
- Resolved bugs spanning UI inconsistencies and backend edge cases, ensuring QA-passing stability across multiple sprint cycles.

**SproutSpot** | *Next.js, TypeScript, Tailwind CSS, Prisma, PostgreSQL, Gemini API*

- Developed a crop simulation platform with real-time growth predictions and CSV import; achieved 92% forecast accuracy using Gemini-integrated analytics.
- Enabled scalable data visualization for agricultural datasets, reducing manual planning by 50% for test users.

## EDUCATION

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**University of San Carlos**

*Bachelor of Science in Computer Engineering, Cum Laude*

- GPA: 1.67/1.00

Cebu City, Philippines

*July 2022 – May 2026*