Ethan Ng

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Education

Washington University, *Computer Science and Business* 🔗   Aug 2023 – May 2027 | St. Louis
Systems Software, Mobile App Development, Data Structures and Algorithms, Object Oriented Programming

Skills

Languages: JS, TS, Python, Java, PHP, C++, C, Assembly, Dart, Swift, SQL
Technologies: Next.js, React.js, React Native, Flutter, PostgreSQL, MongoDB, TailwindCSS, AWS, Git, Linux, Unix

Professional Experience

Co-Founder & CTO, *ConnectAlum, Inc.*   Dec 2023 – present | St. Louis
- Leading the development of web and mobile-based educational technology software with over **5000 monthly active** users using **Next.js, React Native TRPC, and PostgreSQL**
- Engineered a scalable real-time chat application handling **5000+ monthly active users**, implemented efficient post and user search using embeddings, and automated hosting pipelines with **SST, OpenNext, and EC2**, achieving a **15%** increase in system uptime
- Negotiated and secured software contracts with **4 organizations** grossing over **$60K in annual revenue**
- Received non-dilutive funding from WashU Skandalaris IdeaBounce and Washu Olin Business Cup

Founder & CEO, *Ethan Ng Technologies, LLC.*   Sep 2020 – Dec 2023
- Developed software solutions, including websites, Java plugins, mobile apps, and Discord bots for over **50 clients** and generated over **$150K in revenue** across 4 years
- Led project management, maintaining a **98% on-time delivery rate** & **92% satisfaction rate** across over **70 projects**
- Recruited and managed a team of **3 developers and a contract manager**, demonstrating leadership skills

Developer, *DevSTAC*   Jun 2024 – present | St. Louis
- Developed robust analytics software for Moelis Asset Management to track profiles in the private equity sector using **TypeScript, PostgreSQL, and Tableau**
- Assisted WashU's Office of Sustainability in developing a mobile app to display dynamic UI based on consumers' energy type and spending habits using **React Native**
- Work closely with clients to discuss project deliverables and timelines

Lead Software Engineer, *AnotherMe*   Dec 2023 – May 2024
- Led a team of **4 engineers** to develop a stress-tracking mobile app with **Swift** and published it to the app store
- **Trained LLM** to parse **Apple HealthKit** data into personalized recommendations on alleviating stress

Software Engineering Intern, *RadiantAI*   Sep 2023 – Dec 2023
- Collaborated directly with founders, formerly of Lyft and Amazon, to redesign UI/UX in efforts to target **$2 million** seed round; helped to increase average user retention by around **10%**
- Designing user-centric interfaces in Figma for proprietary medical AI query engine; built designs with **Next.js & TailwindCSS**; honed through iterative sprints following stakeholder & user feedback

Computer Science Teacher, *The Coder School* 🔗   Sep 2021 – Mar 2023
- Taught over **50 beginner and intermediate programmers**; fostered a productive and respectful learning environment; utilized feedback loops to perfect teaching strategies
- Created tailored learning curriculums for Python, Java, JavaScript, HTML, and CSS
- Delegated teaching process through training and mentoring interns

Projects

Somnia, *Hack Washu 2024 (GitHub Repo)* 🔗   Oct 2024
- Built a sleep-centric app that pulls sleep data from your Apple Watch
- Provides AI-powered sleep insights and compares your sleep activity with friends in the form of a leaderboard
- Scored **second place** overall in the **master's division**

AI Voice Assistant (Jarvis)
- Coded an AI-powered voice assistant that parses microphone data and responds to you using Python
- Integrated APIs for multiple services such as GPT-4, Calendar, Email, Todoist, Canvas LMS, etc

AetheriaMC
- Used **Java & Paper API** to develop highly functional Minecraft plugins and server infrastructure.
- Improved server architecture by implementing **CI/CD pipelines, developer tooling, and optimizing AWS**.