KENNETH AVERNA

✉ kenneth.averna@gmail.com   🌐 kennethaverna.com   📞 (424) 644-4859
🔗 linkedin.com/in/kenneth-averna   ⭘ github.com/kennyav   📍 Los Angeles, CA

SUMMARY

Proven Software Engineer with 2+ years of experience collaborating with clients to craft tailored software solutions, notably launching applications such as EcoCat Reservation Software, AITC, Trademarktopia, and AI Icon Generator using Agile methodologies and docker with AWS web technologies like ECS, Amplify, and S3. I was instrumental in enhancing digital health by initiating the Artificial Intelligence Trust Council, a decentralized platform that champions transparency. Among my accomplishments were boosting attorney profitability by 15% and pioneering efficient tools like the AI Icon Generator with advanced tech stacks including Flask, Prisma, SQLite, PostgreSQL, MySQL, and tRPC for backend stack and React, TailwindCSS, Next.js, and typescript for frontend stack.

SKILLS

- **Languages**: HTML, CSS, JavaScript, TypeScript, Java, C, C++, Python, SQL
- **Frameworks**: Node.js, TailwindCSS, Next.JS, Figma Design Tools, Docker, Flask, Electron
- **Libraries**: React, Redux, Auth.js, Redis, Axios, SwiftUI
- **Cloud Platforms:** AWS (EC2, Amplify, S3)
- **Databases**: MongoDB, PostgreSQL (Postgres), MySQL, SQLite
- **CI/CD**: GIT, Heroku, Travis
- **Methodologies:** Agile, CRUD, REST, Kanban

EXPERIENCE

BlockSmith Consulting, LLC - Software Engineer   **Los Angeles, CA** Jan 2023 - Present
- *Project: Limpio IPhone Application*
    - *Developed a mobile application to address the growing problem of increased user screen time on smartphones.*
    - *The application uses SwiftUI to utilize widgets to create a more minimal home screen without application icons and on app notifications, lining up the app names vertically along the height of the device.*
    - *Personally, the application has helped reduce my screen time by 30%.*
- *Client: EcoCat Tours Reservation Software*
    - Followed a three step process of Product Design, Implementation, and User Testing by managing a team of 4 using Agile Methodology with Jira Software.
    - Utilized Figma software for our design stage and held weekly meetings with the client to ensure we are aligned with their envisioned aesthetic.
    - Hosted weekly stand up and pair programming meetings with our developers to assign new tickets for the week and go over any issues that arose in the prior sprint.
    - Facilitated CI/CD pipelines using Git and GitHub actions automating key development processes like testing and integration processes, reducing merge time by 10%.
    - Applied A/B testing to better uncover any bugs or unresolved issues with the reservation software.
    - Efficiently transitioned reservation management from Google Sheets to our dedicated reservation software, automating workflows and reducing manual efforts, leading to a significant decrease in reservation management time by 100%.
    - Spun up an ECS instance to run our dockerized React Flask project. Our backend consisted of SQLite with SQLAlchemy to convert python to SQL commands and TailwindCSS with React to handle our UI components, using Axios to make our requests and Redis to handle our server side user authentication.
- *Client: Trademarktopia*
    - Introduced Trademarktopia as a digital trademark solution using the Next.js, tRPC, Tailwind CSS, TypeScript, Prisma, and NextAuth.js web development stack, eliminating in-person client-attorney interactions and showcasing our capability to streamline traditional processes.
    - Boosted attorney profitability by 15% through strategies that increased client acquisition and improved USPTO filing accuracy.
    - Rolled out a USPTO intake form email system, achieving a 20% surge in trademark attorney filings by minimizing attorney-client meetings and enhancing process efficiency.
    - Integrated Stripe payment processing and nodemailer in Trademarktopia, demonstrating our proficiency in facilitating smooth financial transactions and effective communication.

- *Client: Artificial Intelligence Trust Council (AITC)*
    - o   Enhanced digital health with the creation of the Artificial Intelligence Trust Council, a decentralized social media web application that promotes transparency, by leveraging our expertise in building community-based trust networks.
    - o   Developed a decentralized software using Next.js that employed Nostr blockchain technology, resulting in a secure and efficient method for information processing and transmission.
    - o   Worked on the creation of a secure social media client for a $231.1B industry, implementing features like direct messaging, D3.js data visualizations, and community-based polling, drawing from our expertise in secure software development.

Systopia Lab - Research Software Engineer   **Vancouver, BC** Mar 2022 - Dec 2022
- Supported the Teleoscope team's development, leading to enhanced academic research analytics by leveraging software skills to scale human intuition for qualitative analysis of thousands of documents with NLP machine learning.
- Implemented front-end experiences and prototypes, resulting in improved user interaction (UI) by using technologies like Next.js, ReactForms, MUI components libraries, and various testing and data packages.
- Pioneered the cybersecurity design for user authentication, ensuring maximum security through bcryptjs password hashing, JWT user tokenization, and comprehensive database management.
- Guided the team into the qualitative analysis collaborative space, achieving a 33.2% increase in research productivity.
- Employed custom SWR APIs, successfully retrieving JSON data from MongoDB, showcasing proficiency in back-end data retrieval and user authentication processes.
- Developed microservices in Python to push data, ensuring seamless data transition through RabbitMQ and Celery to our database.
- Managed user collaboration design, effectively reducing merging issues and refining read/write permissions for each document by utilizing advanced collaboration tools and strategies.

EDUCATION
University of British Columbia - BA, Cognitive Systems, Computer Science   **Vancouver, BC** May 2023
Computer Science Coursework: Computer Systems (Multi-Threading, Assembly), Software Design (Data Structures, Computer Architecture, Object-Oriented Design), Software Algorithms, Functional Programming, Introduction to Artificial Intelligence