

# Dennis Weng Han Ong

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## SUMMARY

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Experienced Software Engineer with a strong background in developing scalable software solutions, leading cross-functional teams, and implementing privacy compliance strategies. Proven ability to leverage a wide range of technologies to solve complex problems and drive project success. Eager to learn and innovate, always poking at new ideas.

## SKILLS

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- **Programming Languages:** Java, JavaScript, C++, PHP, Bash
- **Frameworks/Technologies:** Kafka, Vert.x, React, Node
- **DevOps and Cloud:** Amazon Web Services(AWS), Heroku, Docker, Jenkins

## EXPERIENCE

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- **American Express** Onsite - Phoenix, AZ  
*Software Engineer II* *February 2022 - Present*
  - **Full Stack Sub-Team Lead - Privacy Compliance:** Led a team to develop and implement compliance solutions for EU and California privacy laws End to End, affecting over 56 million users. Managed opt-out requests for millions of records monthly. Designed and implemented banner to back-end API.
  - **Analytics System Development for Business Insights:** Part of a dynamic team at American Express Analytics, played a crucial role in designing and implementing a high-performance analytics platform to capture and analyze over 300 million user action events per week.  
Utilized Apache Kafka for scalable event streaming and Java Vert.x for developing reactive, asynchronous microservices, enabling real-time data processing and insights. Overcame challenges of high-volume data management by optimizing data partitioning, indexing, and stream processing, replaced completely Adobe Analytics which cost 15 Million USD Annually
  - **Fraud Algorithm Context Team:** Designed and implemented a distributed graph solution, processing millions of nodes and edges in real-time, resulting in a 17% reduction in resource usage. Utilized Java, Vert.x, and Couchbase.
  - **Automated Testing Efficiency:** Led initiative to improve regression testing for Fraud Detection. Reduced test time by 50 percent through the leverage of Parallel Threads, Playwright, JUnit
  - **Legacy System Refactoring:** Migrated a complex Spring Boot application to Vert.x, achieving a more scalable and maintainable architecture.
- **Bioforcetech** South San Francisco, CA  
*Software Engineer Intern* *Summer, Winter 2020 - 2021*
  - **Data Read/Write IoT:** Increased read/write speed of IoT hardware by 30% by optimizing firmware in C++ and Linux OS.
  - **IoT Networking:** Implemented a reverse tunnel feature for IoT devices, enhancing network security and efficiency.
  - **Cloud Platform Development:** Developed a cloud platform for integrating multiple IoT devices, using AWS and Laravel.

## PROJECTS

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- **Power Log - Fitness Logging App:** Developed a React Native app for fitness tracking, supporting over 100+ users with Firebase backend, Google Auth, and Apple Sign-In for authentication.

## EDUCATION

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- **Cal State East Bay:** Bachelor of Science in Computer Science, Graduated with 3.6 CGPA. Honors: Pioneer Scholarships recipient.

## ACCOMPLISHMENTS

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- **Honors Student:** Graduated with 3.6 CGPA at Cal State East Bay.
- **Pioneer Scholarships:** Selected out of 150+ applicants for academic excellence.