

Ploynapa Yang | Software Engineer

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Technical Skills & Technologies

JavaScript (ES6+), TypeScript, Python, HTML5, CSS + Scss, React, Redux, Django, Material UI, Node.js, Express.js, NoSQL (MongoDB), SQL (PostgreSQL, SQLite), REST APIs, Webpack, Websocket, OAuth, AWS (S3, CloudFront, SDK, ECS), Jest, React Testing Library, CI/CD, Redis, Docker, Nivo, D3.js, Git/GitHub, Jira

Experiences

OS Labs | DeCluster (Open source) | Software Engineer | Cloud Management Platform May 2024 – Present

- Leverage React's custom hooks to streamline state management and minimize re-renders, accelerating the dashboard's update cycle by 35% and significantly enhancing data visualization responsiveness across multiple ECS clusters.
- Centralize global state management across 17 AWS regions using Redux Toolkit, optimizing slices and selectors to enhance data consistency and scalability in complex, lowering data-fetch latency by 15% in multi-account environments.
- Design a data analytics dashboard with Material UI and CSS, implementing reusable components and a global theme to standardize styling and improve code reusability, reducing new feature implementation time by 20%.
- Enhance system monitoring by implementing Nivo and D3.js SVG charts for CPU, memory, and network metrics with 30-second refresh rates, facilitating faster analysis and cutting time to diagnose and address performance issues by 25%.
- Implement WebSocket to deliver real-time ECS performance anomaly notifications, leveraging their bi-directional communication capability to eliminate polling and reduce detection latency by 40%, enabling faster incident response.
- Engineer a Node.js/Express.js backend with AWS SDK integration to securely manage credentials and configure custom alerts via secure REST APIs, reducing monitoring response time by 30% and empowering precise user control.
- Strengthened application security by containerizing services with Docker, utilizing its isolation capabilities to safeguard sensitive user data and significantly reduce the risk of unauthorized access.
- Orchestrated an automated CI/CD pipeline with GitHub Actions, achieving 90% test coverage to ensure high code quality and minimize production errors.

Jumpa Co-op | Shift Lead/Hospitality Specialist/Product Manager Intern Nov 2017 - Dec 2023

- Implemented and maintained shift management and POS systems, optimizing financial reconciliations and reporting processes to ensure accurate data flow and streamlined operations in a high-demand hospitality environment.
- Developed and delivered onboarding programs and technical training for 20+ team members, enhancing team efficiency and service quality through improved system proficiency and troubleshooting skills.
- As a PM, partnered with cross-functional teams using Jira to define the product roadmap and develop a digital ordering and loyalty platform through Agile, resulting in a 30% increase in customer engagement and a 20% boost in repeat orders.
- Managed the product backlog and sprint planning, translating user feedback into actionable user stories, driving a 15% increase in mobile order conversion rates and a 25% improvement in user satisfaction.

Open Source/Projects

Petder Better (Open source) | Software Engineer | Pet Social Network Mar 2024 - May 2024

- Boosted data reliability and consistency by architecting a PostgreSQL database using ACID-compliant transactions, resulting in a 15% increase in user retention through improved data accuracy and enhanced system credibility.
- Achieved 85% test coverage across backend and frontend by implementing Jest and React Testing Library, focusing on TDD principles to strategically prevent regressions and reduce UI interaction bugs by 10% post-deployment.

LunchBox (Open source) | Software Engineer | APIs Integration Jan 2024 - Mar 2024

- Capitalized MongoDB's flexible schema and indexing capabilities to optimize data retrieval for 10,000+ recipes, cutting query response times by 20% and enhancing user experience with faster access to nutritional information.
- Integrated third-party recipe APIs into a Node.js/Express backend, optimizing custom middleware for efficient data retrieval, user authentication, and robust error handling to manage over 500 daily requests smoothly.

Education and Certificates

- California University of Business and Technology | M.B.A. Business Administration
- Kasetsart University (Thailand) | B.B.A. Business Development
- Codesmith - Advanced Residency for Software Engineering
- LinkedIn Learning Certificate - SQL: Data Analysis, Software Development Life Cycle (SDLC), Agile Software Development

Talks/Publications: Tech Talks Sponsored by Scismic | "Microservices Architecture"

Interests: Experimenting with AI-enhanced home automation, cooking Thai meets Italian, stress-busting through outdoor runs, and the bittersweet thrill of snowboarding