

Jen Yang Koh

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EXPERIENCE

Software Developer	PCL Constructors	Oct 2021 - Present
<ul style="list-style-type: none">Led the end-to-end development of enterprise-grade software solutions by architecting web and mobile applications, optimizing large-scale data pipelines, and automating cloud deployment workflowsSpearheaded the architecture and development of the JSI™ mobile app using .NET MAUI, providing a user-friendly interface for construction site management that led to an increase in mobile user adoption by 92%Designed and documented scalable end-to-end data pipelines, identifying redundancies and optimizing workflows to streamline operations and cut costs by 90%, delivering significant budget savingsOptimized deployment pipelines to improve infrastructure reliability and scalability, resolving race conditions and achieving a 95% deployment success rate, while reducing engineer interaction with the automation process by 40%Established alerts and diagnostic scripts to address telemetry backlogs in high-throughput systems, reducing issue detection times by 40% and enabling immediate resolution for critical outagesDeveloped an algorithmic predictive tool that automated camera positioning for optimal site coverage, reducing installation time by 50%, especially benefiting remote sites with limited internet accessDirected a cross-functioning team to develop and deploy IoT solutions to monitor and optimize construction site operations, achieving a 30% improvement in end-to-end streaming latency by implementing event queue auto-scaling and device-based partitioning	PCL Constructors	
Construction Technology Analyst	PCL Constructors	Jun 2021 - Oct 2021
<ul style="list-style-type: none">Resolved technical challenges and enhanced computing environments to ensure uninterrupted productivity for staff.Coordinated and executed technology upgrades and system enhancements across PCL's main Edmonton campus, acting as the primary technical liaison and ensuring seamless deployment and integration with existing infrastructureDelivered high-level technical support for executive teams, including quick resolutions to IT issues, system troubleshooting, and proactive support measures to minimize downtime for critical personnelDeveloped and deployed PowerShell scripts to automate data backup and migration, streamlining workflows and reducing manual labor by 20%, leading to notable time and cost savings for the team	PCL Constructors	Jun 2021 - Oct 2021

PROJECTS

DouDou React, TailwindCSS, ShadCN, Supabase, S3	Oct 2024 - Present
<ul style="list-style-type: none">Developed an interactive photo voting app with a multi-phase workflow for users to join sessions, submit photos, and vote on submissions in real-timeSession owners control the process flow, finalize top-voted photos, and facilitate in-person prize awards	
SE-OER React, Material-UI, Django, PostgreSQL	Jan 2020 - May 2020
<ul style="list-style-type: none">Led a team of 4 in developing a collaborative web app for Software Engineering quizzes, enabling users to create, customize, and self-assess on topic-specific questionsDirected team efforts on user-friendly platform development to foster peer-driven study and continuous skill improvement	

EDUCATION

University of Alberta	Edmonton, Alberta, Canada
Bachelor of Science in Computer Science, Minor in Psychology	

TECHNICAL SKILLS

Languages: Typescript, Javascript, C#, Golang, SQL (MS SQL, PostgreSQL), HTML/CSS, Python
Frameworks & Libraries: Angular, React, .NET, .NET MAUI, React Native, TailwindCSS, ShadCN, RxJS, Fusioncharts
Cloud & DevOps: Microsoft Azure (Functions, App Service, Service Bus, Event Hub, IoT Hub, Key Vault, Blob, Queue, Table), AWS (EC2, S3, Fargate), Docker, Azure Pipelines, Git
Architectures & Platforms: Microservices, Event-Driven Architecture, RESTful APIs, Serverless Architecture, IoT Integration, Distributed Systems, CI/CD, MVVM
Developer Tools: VS Code, Visual Studio, Github Copilot, Claude Code