


# Hong Hong


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## — EDUCATION

 **Northwestern University** | M.S. in Computer Engineering GPA: 3.97 / 4.00 Evanston, IL  
Courses: Distributed System, Data Privacy, Machine Learning, Advanced Algorithm... Sep 2021 - Dec 2022 ○

 **Xiamen University** | B.E. in Computer Science & Technology GPA: 3.46 / 4.00 (Top 30/100) Fujian, China  
Courses: Programming, Algorithm, Computer Architecture, Operating System, Database... Sep 2017 - Jun 2021 ○

## — EXPERIENCE

 **DocuSign - docusign.com** Seattle, WA  
**Software Engineer – Product-Led Growth Ecommerce** Jun 2023 – Present ●

- Developed and launched "In Product Transaction", a one-click checkout experience embedded across DocuSign web experiences via a **micro-frontend** architecture, which is the most revenue-generating initiative (~500k monthly recurring revenue), implemented with **TypeScript, React, Tailwind CSS, Webpack, GraphQL, Apollo Client, REST APIs, Azure** and **Contentful**.
- Collaborated closely with the backend team on a multi-quarter migration to transition from GraphQL to REST APIs by leveraging **RTK Query**, leading to notable improvements which reduced feature loading time by **35%**.
- Overhauled the local micro-frontend widget development workflow by developing an engineer-friendly **widget devtool** with flexible configuration, caching and style overrides, adopted by **3 teams, 25 frontend engineers** within the organization, increasing develop efficiency by **25%**.
- Created and championed a **Grafana dashboard** template that scales to support all the frontend projects within the organization, leading to comprehensive monitoring and operational excellence.
- Authored the on-call runbook and contributed to on-call improvements by fine-tuning **Kazmon** alert queries and seamlessly integrating with PagerDuty and Slack, optimizing incident responses and resolution.
- Collaborated with the product and analytics team, implemented and rolled out A/B testing via **Optimizely** and utilized **Mixpanel** for analytics event tracking.

 **Amazon Web Services (AWS) - aws.amazon.com** Seattle, WA  
**Software Development Engineer Intern – AWS FinTech** Jun 2022 – Sep 2022 ○

- Developed a real-time **data visualization** showcasing Profit and Loss statements for **AWS FinTech PRISM** (PROfitability InSights Manager), utilizing **AWS CloudFormation pipeline** to deploy the application from alpha to prod stage.
- Developed and integrated multiple data-requesting **Lambda** functions with **API Gateway** and **S3 bucket**, creating efficient and secure **REST APIs** for web application to retrieve required financial data.
- Leveraged **TypeScript** and **React** to transform over 80,000 plain tabular data records into user-interactive and data-adaptive visualized-charts, streamlined data analysis and enhanced customer insights to inform decision-making.
- Created and deployed reusable **React components** that transforms data into the formats required by **Polaris** and **Apache ECharts**, optimized data formatting and improved data compatibilities with libraries.

 **Midea - midea.com** Guangdong, China  
**Software Engineer Intern – Midea Cloud** Jan 2021 – Mar 2021 ○

- Performed data filter and classification for **Smart Home Appliances Project**, with **pandas, R** and **SQL** in data processing. Employed the **KNN (K-Nearest Neighbors)** algorithm for multi-class classification to identify abnormal data.
- Designed and implemented a real-time **CI/CD** platform that automates builds triggered by cloud server data updates. Developed a **Jenkins Groovy**-based pipeline, reducing manual workload by over 90%, from two hours to ten minutes.
- Maintained **DynamoDB** database and created multiple **REST APIs** for efficient retrieval of historical data, improving data analysis convenience and efficiency for other engineers.

## — SKILLS

Languages: proficient: **JavaScript, Python, C/C++**. competent: **TypeScript, Java, SQL**. intermediate: **Rust, Go**.

Backend: **Node.js, Spring Boot, Kubernetes, MongoDB**, core services of **AWS, Azure, GCP**

Frontend: **React, Bootstrap, Redux**.

**Data:** **MongoDB, DynamoDB, Kinesis**

**QA & DevOps:** **Playwright, Enzyme**

**Others:** **Git, Docker, Linux**