

Bo Peng

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Frontend Engineer II with 5+ years of experience shipping production-grade React and TypeScript applications to 10,000+ enterprise users at Amazon AWS QuickSight.

Experience

- Amazon AWS | Frontend Engineer II** Jan 2022 - Present
- Engineered the New Reader Experience Topics feature in QuickSight, improving Q&A discoverability and reducing average time-to-insight for 10,000+ enterprise users.
 - Partnered with the applied science team to integrate generative AI-powered question recommendations into QuickSight Topics, increasing user engagement with AI-suggested queries across thousands of active accounts.
 - Engineered QuickSight Scenarios, an interactive data exploration workflow, using React and TypeScript, delivering the feature to 5,000+ QuickSight Pro users.
 - Wrote end to end tests using PlayWright to ensure full coverage and intended user experience for Topics, Scenarios, and Stories in QuickSight across all test and prod regions.
 - Automated QuickSight account provisioning and test resource setup for new region rollouts using AWS CDK, eliminating 5+ days of manual effort per region expansion and accelerating global service availability.
 - Led a team of 5+ engineers to architect and ship a node-based visual editor using React Flow for QuickSight Scenarios, enabling 5,000+ enterprise customers to interactively explore and visualize their data pipelines.
 - Integrated Bedrock-powered LLM capabilities into the QuickSight Scenarios frontend, enabling natural language data querying for enterprise users
 - Owned on-call operations for 10+ production UI and service pipelines across Topics, Scenarios, and Stories in QuickSight, maintaining consistent uptime across all test and production regions.
 - Created reusable React UI preview components to display AI agent generated Microsoft Office and PDF files for QuickSuite Research team end users.

- Fanbyte | Junior Software Engineer** Feb 2021 - Jan 2022
- Developed microservices as npm modules to help aid the ad service platform for a better ad experience.
 - Utilized mocha testing framework to integrate meaningful tests to ensure microservices function properly.
 - Polished vue ad service front-end to integrate with the new modular npm services to better gather web traffic.
 - Built RESTful API endpoints in Node/Express to surface publisher revenue analytics within a redesigned Vue.js dashboard, enabling real-time revenue reporting for internal stakeholders.
 - Created new wordpress theme with vue and wordpress components for complete redesign of Fanbyte website.

- ManageGo | Software Developer** Aug 2019 - Dec 2019
- Implemented new website designs in React for software applications, improving user experiences for thousands.
 - Created new custom React hooks using React history module to manipulate query strings when handling API calls and state management with Redux and Redux Saga for the utmost dynamic front-end performance.
 - Designed and finalized an API schema on a new commercial application feature/software for concierge users.
 - Utilized styled-components to design multiple React components to ensure optimization, stability, and consistent universal styling throughout the entire application structure and user interface.
 - Wrote polished tests on redux actions, reducers, and sagas to ensure proper functionality in application state.

Education

- New York University** Sep 2014 - May 2018
- Bachelor of Arts in Computer Science with a minor in Economics and Web Design

Technical Skills

Frontend: React, TypeScript, JavaScript, Jest, Playwright, React Query, Redux/Saga, Vue.js

Backend: CloudWatch, AWS Lambda, DynamoDB, MongoDB, Node.js, Java, Python