

Alex Akshaj Mody

Senior Fullstack Engineer | Java/Node.js | React/TypeScript | AI-integrated systems
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PROFESSIONAL EXPERIENCE

Woven by Toyota

Software Engineer (Woven City) - Tokyo, Japan

April/2025 – April/2026

- Architected and owned the User Searching Service backend, including user search, privacy controls, and friend/block management, from system design and scoping through production rollout and cross-team integration
- Designed and implemented 15+ APIs across Calendar, Group Management, and User Searching Service, introducing automated jobs, caching, and pagination, cutting critical endpoint response times by ~87%
- Developed Next.js/React/TypeScript frontend features across all three services for the Circles applications, event scheduling, calendar views, and resident management, contributing to Woven City's live launch in September 2025
- Built QA environment with Docker Compose orchestrating all 3 services and local Keycloak for E2E automation testing

Amazon

Software Development Engineer (Amazon Ads) - New York, NY

November/2022 – January/2024

- Reduced team AWS operational costs by ~85% with event-driven architecture and improved resource efficiency by converting SageMaker Notebooks for streaming labeling job creation into Lambda functions based workflow
- Built ML data pipelines supporting Amazon advertising: OCR receipt validation, extraction, and product mapping from Shopper Panel data via custom SageMaker Ground Truth jobs, Lambda pre/post processing, and computed data storage
- Developed front end templates and deployed custom Ground Truth annotation jobs utilizing data from the Shopper Panel app to support various ML / data science team requirements for retailer mapping and product pricing initiatives
- Resolved production incidents across the event-driven receipt pipeline (Lambda, SNS, S3, Step Functions) on-call, restoring stalled labeling workflows that gated downstream ML training data
- Career Note:** Departed January 2024 to serve as primary caregiver for father during his treatment for critical illness

Dun & Bradstreet

Software Engineer - San Francisco, CA

April/2021 – July/2022

- Led frontend development of new greenfield B2B web application by creating full project architecture, managing team of 3 engineers across international time zones, and driving successful deployment from initial design to general availability
- Modernized multiple existing flagship app microservices with Angular to React, Redux, TypeScript, and Material UI
- Revamped pre-acquisition features and microservices to align with Dun & Bradstreet central theme and new overarching application architecture, integrating prior standalone applications into new suite of products while eliminating tech debt
- Implemented core features in the Rev.Up ABX product such as ad campaign management, creatives uploading, budget forecasting and optimization, and target audience selection, allowing customers to efficiently customize ad campaigns

Softbank Group – Healthcare Technologies Corp.

Software Engineer (Contract) - Tokyo, Japan

December/2020 – April/2021

- Developed multiple user and administrator interfaces with modular designs by utilizing React, Redux, TypeScript, and Material-UI for the 'HELPO' COVID-19 PCR test scheduling and hospital management web app
- Created new retailer-side features with Flutter/Dart and Firebase for the 'HELPICK' pharmacy e-commerce mobile app
- Migrated a core product's front-end codebase from JS to TS, improving maintainability, type safety, and consistency

SOFTWARE ENGINEERING PROJECTS

MirAI - Portfolio-aware financial news intelligence platform with multi-agent synthesis

July/2026 – Present

- Building multi-agent pipeline that retrieves and relevance-filters daily news against user holdings, synthesizes portfolio-specific reports tracing events to affected positions, and tailors briefings to users' financial literacy levels
- BullMQ/Redis orchestration across ingestion, synthesis, and digest stages, with pgvector RAG over historical market and article data, and every synthesized claim cited to a stored source record

EDUCATION

University of Colorado, Boulder – B.A. in Economics with Business Minor

Graduation: 2017

TECHNICAL SKILLS

FRONT END: React, Next.js, TypeScript, JavaScript, Redux, Zustand, SWR, React Native, MUI, Tailwind

BACK END: Java, Node.js, Python, PostgreSQL, MySQL, MongoDB, GraphQL, Redis, Firebase/Firestore, AWS (Lambda, SageMaker, S3, EC2, SNS, Step Functions, Cloudwatch), NGINX, OpenAI API, Anthropic API

PROFICIENCIES: Docker, Kubernetes, AWS CDK, Git, New Relic, JIRA, Claude Code, Cursor, AI Agents