

# Chia Kang Jin

Full Stack Developer

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## SUMMARY

Senior Full-Stack Engineer with 13+ years of experience building and scaling web applications across Japan and Singapore. Currently at Autify (test automation SaaS), where I maintain infrastructure serving 300+ companies, drive BI/data analytics initiatives, and build AI tooling including MCP servers and AI-powered automation agents. Broad stack depth: TypeScript/React frontends, Ruby on Rails / Node.js backends, AWS infrastructure, and a growing focus on AI/ML integration.

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## EXPERIENCE

### Senior Full-Stack Engineer

Autify, Inc. — Tokyo, Japan | April 2022 – Present

- Drove data analytics initiatives across the organization's Business Intelligence stack (cost tracking, data governance, incident reporting)
- Created an ETL pipeline (AWS Glue / Python) that processed 20M+ unstructured log records in days instead of weeks for AI self-healing analysis
- Created AI tooling for existing products (MCP servers, automated dependency updates with Devin AI Agent)
- Maintained the test automation pipeline for web / mobile automation, serving 300+ companies
- Architected solutions for email delivery and PDF generation
- Debugged native Selenium WebDriver and Chromium internals to stabilize browser automation
- Active development on Chrome extensions for recording and replaying browser actions
- Reduced mobile device wait time by ~50% by pre-warming devices before test execution
- Assisted in building the test automation pipeline for a desktop application; drove development of the scheduling feature
- Deployed a self-serve infrastructure provisioning API (Pulumi) with AWS IAM permission isolation
- Prototyped a natural language AI Agent for mobile test automation (prompt adherence, element location, model selection)

**Tech stack:** TypeScript, React, Redux, Apollo GraphQL, Electron, Chrome Extension API, Appium, Ruby on Rails, GraphQL, Postgres, SQLite, Github Actions, CircleCI, Jest, Testing Library, Mock Service Worker, RSpec, Playwright, AWS (ECS/EKS), Kubernetes, Pulumi, Terraform, Holistics, Athena, Redshift, Airbyte

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### Full Stack Developer

Rakuten, Inc. — Tokyo, Japan | Oct 2019 – March 2022

- Coordinated between 4 departments (20+ people) to build an in-house analytics platform with Form Builder, Query Builder, and multi-timezone support

- Helped maintain CI/CD pipeline and supported transition to Kubernetes
- Took ownership of the logging architecture
- Mentored developers and drove productive code reviews
- Improved QA process with automated testing
- Migrated the codebase to TypeScript
- Developed an ESLint plugin for GraphQL linting

**Tech stack:** React, Redux, MaterialUI, TypeScript, Tailwind, Node.js, GraphQL, hapi.js, MongoDB, Redis, RabbitMQ, Presto, Druid, Elasticsearch, Python 3, Jupyter Notebook, Jest, Cypress, Testrail, Jenkins, Docker, CloudFoundry, Kubernetes, JIRA, Confluence, Bitbucket

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## Senior Software Engineer

**Tectus Dreamlab** — Singapore | Apr 2018 – Aug 2019

- Solely maintained a web app for Proceq (non-destructive testing tools) — chart visualizations with Highcharts, geo-analytics with Google Maps, offline HTML reports with jsdom
- Collaborated on the Screening Eagle platform (construction industry management tool): dynamic form builder, PDF rendering with PSPDFKit, 3D rendering with three.js
- Spearheaded integrated testing that brought bugs down to near-zero
- Integrated i18n and implemented a one-click deployment pipeline

**Tech stack:** React, Redux, redux-saga, ant.design, Storybook, Webpack 4, Flow, Jest, Cypress, Sentry, Gitlab CI, Jenkins, Docker, AWS

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## Frontend Developer

**Spacebib** — Singapore | Feb 2015 – Mar 2018

- Built public-facing and internal admin site for a sporting events platform
- Seamless API integration with backend, continuous UX iteration
- Monitored integration tests and dashboard metrics for site uptime

**Tech stack:** React, Redux, MobX, Apollo, Bootstrap, SASS, JSPM, Webpack 2, TypeScript, Mocha, Selenium WebDriver, Webdriver.io, Browserstack, CakePHP, GraphQL, Jenkins

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## Full Stack Developer

**Pytheas Travel** — Singapore | Jul 2012 – Apr 2014

- Built a whitelabel CMS SaaS catering to 50+ travel agents
- Migrated 35K customers, 1K products and 5 clients, preserving DNS and email functionality
- Automated deployment of dev/production servers with Puppet
- Built a proof-of-concept logging framework with Elasticsearch

**Tech stack:** Codeigniter 2, jQuery, PHPUnit, Selenium Grid, Nginx, Jenkins, AWS, Puppet, CentOS6

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## Web Developer

Doorstep Luxury — Singapore | Mar 2012 – Jun 2012

- Developed a WordPress e-commerce site for luxury goods
  - Built a standalone web-based POS system (webcam scan + receipt printing)
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## Web Developer

KLIF Media — Singapore | Dec 2011 – Feb 2012

- Built a prototype social media site on Symfony 2
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## EDUCATION

### Bachelor of Arts (Psychology)

National University of Singapore | Aug 2008 – Jun 2011

Electives in Programming and Linguistics

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## SKILLS

**Primary:** TypeScript, React, Redux, Node.js, Ruby on Rails, GraphQL, PostgreSQL, AWS, Kubernetes, Docker

**Also familiar with:** R, Angular, Elm, Rust, Go, React Native/Expo, Python/pandas, Vue 3, C#, C++

**AI/ML:** MCP servers, Playwright automation, AWS Glue, Athena/Redshift, Huggingface, Devin AI

**AI-assisted development:** Claude Code, part of my everyday engineering workflow

**Languages:** English (Proficient), Chinese (Basic), Japanese (Basic)

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## CERTIFICATIONS

- Red Hat Certified System Administrator (RHCSA) — ID: 140-241-662
  - Algorithmic Toolbox — University of California, San Diego / HSE on Coursera
  - Huggingface Audio Course Certificate of Excellence (xiankai123)
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## MEETUP TALKS

- **Alternative Libraries for React — JSPM and MobX** — ReactJS Singapore
  - **Data-driven development with Flow** — React Singapore
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## PERSONAL PROJECTS

Pre-AI: built without AI coding agents.

- **Remote Explorer** Pre-AI · being revived with AI coding agents — Android file explorer over Samba (Kotlin / Jetpack Compose)
- **Doorbell Detector** Pre-AI — ML audio classification to detect doorbell sounds (Python)  
↗ [doorbell\\_detector](#)
- **FFXIVFurigana** Pre-AI — C# plugin to display furigana over Japanese in FFXIV chat

- **ChatHistory w/ Vector DB** (Pre-AI) — Import old chat history with semantic search via vector DB  
↗[chat-history](#) ↗[vector-database](#)
- **Triple Triad V2** (Pre-AI) — Rust experiment replicating FFXIV card game logic ↗[triple-triad-ai](#)
- **XIVAnalysis** (Pre-AI) — Collaborative combat performance analyzer for FFXIV (React, SemanticUI) ↗[xivanalysis/xivanalysis](#)
- **Pokémon Go Map** (Pre-AI) — Local map tracking EX-raid predictions, serving 3K+ users (TypeScript, MobX, Leaflet, d3.js, Mapbox/OSM) ↗[sg-pokemongo-ex-raid-map](#)
- **Triple Triad** (Pre-AI) — Multiplayer FFXIV mini-game via WebRTC (peerjs, redux-observables/RxJS) ↗[triple-triad-solver](#)
- **Web Crawler** (Pre-AI) — Disney Store crawler notifying 15 subscribers of new stock (cURL, Redis, Mailchimp) ↗[Disney-Store](#)
- **Discord Bot** (Pre-AI) — Web crawler over 10K+ pages with job queue (phantomjs, Redis, Node.js) ↗[pusheen-the-fc-helper](#)
- **Server Administration** (Pre-AI) — Managed VPS for bots/websites; migrated 6 times across Linode/AWS/Digital Ocean with Puppet/rsync/mysqldump at 100% uptime