

# Richard Perrotta

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## EXPERIENCE

### Senior Software Engineer | Jumpcrew

2022 - Present | Nashville, Tennessee

- **Lead frontend development** of the multi-tenant portal for the Adpost product using JavaScript, ReactJS, Material UI, Tailwind CSS, React Hook Form, Redux, and RTK Query.
- **Provision and maintain AWS infrastructure** for containerized data ingestion workloads on ECS, scheduled Lambdas for automated internal support notifications and synchronization triggers, custom metric filters for CloudWatch alarms, and Bash scripts to scale development environments for cost optimization.
- **Architect and build an NL2SQL Agentic RAG service** for internal Business Intelligence (BI) to streamline complex data retrieval and natural language reporting workflows.
- **Develop complex UI forms** using custom-built reusable form controls abstracted over MUI components and React Hook Form.
- **Develop REST APIs** in the NestJS application layer, leveraging both raw SQL and Sequelize ORM to interact with the data layer.
- **Plan and implement integrations** with third-party services including Stripe, HubSpot, Google Ads, X Ads, Nextdoor Ads, Twilio, StackAdapt, Google Places, Google Maps, and reCAPTCHA Enterprise.
- **Maintain, debug, and enhance** the system's Nx monorepo of NextJS frontend applications.
- **Write ETL scripts** to migrate and merge multiple Sanity CMS project data into a unified multi-publisher project.
- **Write SQL queries** to perform data migrations, mutations, monitoring, and business insights as needed.
- **Consult with stakeholders**, product owners, and engineering teams to plan and implement new features and adapt existing ones in an agile, fast-paced startup environment.
- **Aggregate data** to build and generate intuitive, user-friendly UI graphs, charts, and tables.
- **Implement systems** that allow for granular control over theming, role-based, and subscription-based feature access.
- **Utilize DevOps tools** including GitHub for version control, Docker for containerization of local development environments, and GitHub Actions for automated cloud deployments.

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## Software Developer | INF Systems and Engineering

2021 - 2022 | Bangkok, Thailand

- **Engineer modern applications** using .NET Core, React, and Oracle PL/SQL, focusing on compatibility and integration with clients' existing system architecture.
- **Design MMS (Material Movement System) modules** to create, modify, read, cancel, and submit various types of transaction data for a large regional company's internal web application.
- **Build user-friendly UI components** using React, Redux, and Material UI for viewing, editing, deleting, and exporting tabular data based on Figma prototypes and client specifications.
- **Build RESTful APIs** using .NET Core with both Entity Framework Core and Dapper ORMs.
- **Write SQL queries and scripts** to perform database tasks on both Oracle PL/SQL and Microsoft SQL Server databases.
- **Deliver full-stack design and implementation** of an administrative module enabling users to create, edit, and delete instructional documentation within their internal application.

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## Full Stack Developer | Freelance

2019 - 2021 | Chiang Mai, Thailand

- **Manage project planning** from initial concept to deployment for multiple platforms, including web and Android OS.
- **Execute UI/UX design** workflows to create clean, intuitive user interfaces.
- **Handle data modeling** and database integration using Mongoose and MongoDB.
- **Build client-side UIs** using JavaScript, ReactJS, HTML, CSS, and various third-party libraries.
- **Manage server operations** using NodeJS and Express.
- **Implement user authentication** workflows using JWT (JSON Web Tokens) and secure password hashing.

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## EDUCATION & CERTIFICATIONS

### Certifications

- **AWS Certified Solutions Architect – Associate** | Amazon Web Services
- **AWS Certified Developer – Associate** | Amazon Web Services
- **Full Stack Development Certification** | University of Helsinki
- **Free Code Camp (FCC) Certifications**

- Responsive Web Design (300 hours)
- JavaScript Algorithms and Data Structures (300 hours)
- Frontend Development Libraries (300 hours)
- Backend Development and APIs (300 hours)

## **Degree**

- **Bachelor of Arts, English** | Montclair State University
  - **GPA:** 3.95
  - Graduated with highest honors (*Summa Cum Laude*)