Roilan Roman
Staff Software Engineer

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Education

- **University of Florida** — Gainesville, FL
  Bachelor of Science in Computer Science — *2016*

Experience

- **Amazon**
  SDE III — *01/2021 - 2/2025*
  - Designed and implemented Amazon's telehealth service using Java and Spring Boot as the primary backend, deployed on AWS ECS with infrastructure managed via Terraform and CloudFormation
  - Developed key features such as scheduling, video meetings (WebRTC), intake form processing, e-prescriptions, and payment handling (Stripe) with React and Redux for the frontend.
  - Collaborated on AI-driven features for automated patient routing and predictive analytics, utilizing Python/FastAPI for experimental models and Spring Boot for production-grade services.
  - Built RESTful APIs with Spring Boot, ensuring HIPAA-compliance through AWS IAM, OAuth, and JWT for secure communication.
  - Leveraged AWS S3 for secure file storage, AWS Lambda for event-driven workflows, and CloudWatch for monitoring and troubleshooting microservices.
  - Incorporated Node.js for real-time notifications and specific server-side rendering use cases to enhance performance.
  - Optimized service performance and scalability through AWS CloudWatch, and Kubernetes-based deployments.
  - Conducted A/B testing on AI and microservices workflows, refining algorithms and system interactions based on user feedback, boosting service effectiveness, and increasing patient satisfaction.
- **Datadog**
  Software Reliability Engineer — *03/2016 - 12/2020*
  - Worked on Datadog's infrastructure team and developed the Real Time Metrics Systems(Intake, Storage, Query and Web tiers) that collect, process, and visualize data.
  - Architected Intake to Storage tier for processing 10TB+/day (1 trillion+ data points) through distributed pipelines with dynamic partitioning for cloud-scale customers using kafka and Java
  - Evoluted of partitioning strategy from customer→metric→dynamic kafka sharding to eliminate hotspotting, enabling linear scaling for hyper-volumes (1M events/sec).
  - Designed a Real time dynamic kafka partition reassignment instead of using Fixed partitions
  - Built the hybrid data storage system used by in memory on the other of days, and AWS S3 on the other of months and years.
  - Cross-functionally collaborated with teams across Backend, Frontend and Data Science and Alerting orgs to design, implement, and deliver improved alerting/monitoring reliability to end-customers during internal incidents.
  - Mentored junior developers and continuously improved development processes and code reviews.

Programming Skills

- **Backend**: Java/Spring Boot, Node.js/Express/Nest.js, Python/Django/FastAPI, Golang, NET, C/C++, SQL, NoSQL, Redis, RESTful APIs, GraphQL, gRPC, OAuth, JWT, Kafka, RabbitMQ, Prisma
- **Frontend**: HTML,CSS, JavaScript/TypeScript, React/Angular/Vue, Next.js, Redux, Context API, Bootstrap, Material UI, Tailwind CSS, D3.js, ApexCharts.js

- **Database**: MySQL, PostgreSQL, MongoDB, DynamoDB
- **Testing Frameworks**: Unit testing (Jest, Enzyme), E2E testing (Cypress, Playwright)
- **Cloud/DevOps**: AWS, GCP, Azure, Terraform, Jenkins, CircleCI, Github Actions, Docker, Kubernetes
- **Architecture**: Microfrontend, Monorepo, Atomic Design, Event-driven
- **Other**: Mapbox GL, Google Maps API, WebRTC, Swagger, Formik, Webpack, Agile, Restful API, SEO, Figma, Sketch, Adobe, A/B testing, Stripe, React Query, Apollo, DataDog, Amplitude, PagerDuty, Webpack, Google Analytics, Google Tag Manager, Git, Github, Gitlab, Bitbucket, Jira