

EDUCATION

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

EXPERIENCE

- **Amazon** 01/2021 - 12/2024
 - 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** 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
 - Evolved of partitioning strategy from customer→metric→dynamic kafka sharding to eliminate hotspotting, enabling linear scaling for hyper-volumes (1M events/sec).
 - Designed a dynamic kafka partition using composite by calling `func mod(n, hash(customerID))` enabling 1:1 mapping between one partition and one customer.
 - 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, risma
- **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