

Brendon A. Kay

Software Engineer

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Experience

Backend Engineer | XOi | July 2024 - Present | Remote

Languages & Tools: Backend: Python; Frontend: TypeScript, React; Tools: AWS Lambda, DynamoDB, PostgreSQL

- Develop Python data APIs using AWS Lambda, AppSync REST/GraphQL with DynamoDB and PostgreSQL RDS
- Build concurrent file import pipelines using AWS SQS and Lambda
- Design database schemas and optimize queries through indexing strategies
- Orchestrate data migrations and schema updates
- Manage AWS cloud infrastructure using CDK and CloudFormation
- Contribute to TypeScript and React frontend development
- Make independent technical decisions as the sole backend engineer on a Scrum team

Backend Software Engineer III | Syndio | October 2021 - July 2024 | Remote

Languages & Tools: Backend: Go; Frontend: TypeScript, React; Tools: Kubernetes, Docker, Terraform, Agile Development

- Built Go microservices processing batches of customer data
- Integrated Machine Learning statistics into backend services and implemented caching systems to improve page load performance
- Designed scalable systems using Kubernetes for horizontal scaling and Google Cloud Functions for on-demand compute
- Authored Dockerfiles and contributed to the Terraform infrastructure as code
- Mentored two junior engineers 1-on-1, enabling them to become independent contributors
- Collaborated on feature design in an agile environment

Technical Operations Lead Developer | Maize Analytics | June 2020 - October 2021 | Remote

Languages & Tools: Backend: Go, Python; Tools: Project Management, Software Architecture, Team Leadership, Scrum

- Designed and deployed a Go microservice deployment architecture using AWS ECS, scaling up to 60+ customers
- Established and executed deployment patterns for customer installations via ECS and EC2 in HIPAA-compliant environments
- Designed scalable cloud infrastructure enabling cost-effective hosting solutions for terabytes of medical data per customer
- Managed Scrum workflows for a 2-person DevOps team with 1-on-1 mentoring
- Mentored team on software architecture and DevOps practices

Technical Operations Developer | Maize Analytics | January 2019 - June 2020 | Remote

Languages & Tools: Backend: Go, Python; Tools: ETL, AWS, Virtual Machines, Docker, Integration Development

- Developed integration solutions for on-site and AWS cloud deployments across 60+ enterprise customers
- Built backend tools and monitoring for enterprise database integrations in HIPAA-compliant environments
- Created monitoring and alerting systems improving integration reliability and uptime
- Maintained Python ETL tool processing terabytes of enterprise medical data
- Developed Go ETL tool significantly improving processing performance over Python implementation
- Streamlined customer onboarding and data migration tools, reducing implementation time

Education

Bachelor of Science in Computer Engineering | Vermont Technical College | June 2015

Member of the VTC engineering club