Matthew Dickens

Software Engineer
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Skills

- **Programming Languages**: C#/.NET, Go, JavaScript/NodeJS, SQL, Python, Java, TypeScript
- **Frameworks/Libraries**: ASP.NET, Django, Zend Framework 2, Koa/Express, Vue JS, Angular, RxJS, React, Spring
- **Database Systems**: PostgreSQL, MySQL, SQL Server, DynamoDB, Mongo.
- **Cloud/AWS Services**: MSK, RDS, Batch, EC2, S3, DynamoDB, IAM, SNS, SQS, EKS, Lambda, Kinesis, Secrets Manager, Parameter Store, IOT, Codebuild, Event Bridge, Cloud Watch, VPC, Route53, API Gateway, Cloudfront
- **DevOps/Tooling**: CI/CD, Docker, Git, Terraform, Kubernetes, Vault (Secrets Management), ArgoCD, AWS CDK, GitHub Actions, Bash Scripting, Grafana, Promethius
- **Other Technologies**: Kafka, OAuth2, GraphQL
- **Other**: Agile/Scrum, Software Design, Clean Code, Test Driven Development, REST API Design and Development, System Design, Vim/Neovim

Experience

Nordic Semiconductor   May 2022 – October 2024
Backend Engineer
Portland, Oregon

- Enhanced and maintained current FOTA service of nRF CLoud to enable customers to update device firmware on their Nordic IOT devices in the cloud with AWS IoT, Typescript, DynamoDB, CockroachDB, AWS Lambda, SQS, and Event Bridge.
- Increase internal development velocity by ~10% by creating and maintaining internal tooling for developers to interface with the internal nRF Cloud System.
- Managed production and beta deployments for the nRF Cloud platform across multiple projects for the development team.
- Identified, advocated, and implemented data retention policies to cleanup old data which reduced AWS costs by ~10%.
- Built a custom scripting platform for AWS Batch and Event Bridge, facilitating cron-scheduled or single-run job execution, to perform internal reporting and other long-running to increase development productivity.

DAT Freight and Analytics   March 2019 – April 2022
Product Development Engineer II
Beaverton, Oregon

- Operated as a Full Stack Engineer, developing newer cloud-based systems within AWS using TypeScript/NodeJS and C#/.NET for legacy components for the RateView systems.
- Designed and architected REST APIs in an event driven style for Ratings/Analytics and Freight Matching services to improve scalability of our systems. Utilizing Kafka, AWS, Lambdas, Dyanmo DB, and AWS RDS change feeds.
- Deployed and configured cloud applications with Kubernetes and infrastructure as code via Terraform.
- Identified, Advocated, and Led the company's Agile Community of Practice where we discussed topics, mentored teams, and led initiatives regarding Agile processes.

MORI Associates COMIT Contract NASA   July 2017 – March 2019
Software Engineer
Houston, Texas

- Served as the Full Stack Engineer for the International Space Station Program's financial analysts in an application that utilized C#, VueJS, ASP.NET, and MS SQL.
- Improved code reliability by implementing better automated testing practices with both Unit and Integration testing.
- Increased application front-end responsiveness by implementing VueJS and creating RESTful Web API in C# for the backend to enable seamless user interfaces.
- Identified change control issues and increased adoption of Git version control among engineering teams which led to increased development productivity across all development teams.

NSMIT (University of Houston)   May 2015 – May 2017
Software Developer
Houston, Texas

- Developed student and faculty portal for the College of Natural Science and Mathematics using PHP, MySQL, jQuery, Doctrine-ORM, and Zend Framework 2.
- Created a scholarship application system for students written in Zend Framework 2 and PHP.

Education

University of Houston – B.S. Computer Science   August 2013 – May 2017
Houston, Texas