

Matthew Dickens

Software Engineer

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GitHub: github.com/Toltar

Website: <https://matthewdickens.com>

Skills

- **Programming Languages:** C#/.NET, Go, Rust, JavaScript/NodeJS, SQL, Python, Java, TypeScript, PHP, HTML, CSS
- **Frameworks/Libraries:** ASP.NET, Django, Zend Framework 2, Koa/Express, Vue JS, Angular, RxJS, ReactJS, Spring
- **Database Systems:** PostgreSQL, MySQL, SQL Server, DynamoDB
- **Cloud/AWS:** MSK, RDS, Batch, EC2, S3, DynamoDB, IAM, SNS, SQS, EKS, Lambda, IOT
- **DevOps/Tools:** CI/CD, Docker, Git, Terraform, Kubernetes, Vault (Secrets Management), ArgoCD
- **Other Technologies:** Kafka, OAuth2
- **Other:** Agile/Scrum, Software Design, Clean Code, Test Driven Development, REST API Design and Development

Experience

Nordic Semiconductor

May 2022 – Present

Backend and DevOps/Tooling Engineer

Portland, Oregon

- Maintained and developed the nrfCloud platform that enables customers to connect their IOT devices to the cloud.
- Worked on internal tooling for developers, such as internal CLIs, to enable them to develop more efficiently and give them a much smoother experience.
- Worked with the DevOps team to improve our CI/CD pipelines in GitHub Actions and AWS CodeBuild to give test reporting and other useful features.

DAT Freight and Analytics

March 2019 – April 2022

Product Development Engineer II

Beaverton, Oregon

- Served as a Full Stack Engineer designing and developing cloud-based software systems within AWS mainly in Typescript/NodeJS along with C#/.NET for legacy systems.
- Worked on REST API Design and Development for Ratings/Analytics as well as Freight Matching.
- Wrote front end applications using Angular which interacted with software systems deployed in S3.
- Created cloud-based application systems in event-based style of architecture utilizing MSK, Lambdas, and DynamoDB Streams.
- Deployed AWS cloud application systems using both Kubernetes/ArgoCD and infrastructure as code with Terraform.
- 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 TDD practices with tools such as NUnit.
- Increased application front-end responsiveness by implementing VueJS and creating RESTful Web API in C# for the backend.
- Increased adoption of Git version control among engineering teams by presenting my "Understanding Git presentation series in our weekly Developer's Working Group.

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.

Personal Projects

- **Discord Server Bot:** Wrote a Discord server bot in Typescript to manage discord users that are inactive by kick them off the server and sending a direct message saying they have been kicked off due to inactivity.
- **Raspberry Pi Digital Picture Frame:** Developed a picture frame using the Raspberry Pi. The pictures are uploaded through a Django app and then it is resized with python pillow library. Files are uploaded to AWS S3 and then another Django app cycles through the pictures within the digital picture frame in AWS EC2.
- **Downloads Organizer:** A simple Python script which organizes your downloads directory into its own file type directory.
 - **Link:** <https://github.com/Toltar/DownloadsOrganizer>

Education

University of Houston – B.S. Computer Science
Houston, Texas

August 2013 – May 2017