

Nathaniel Rupsis

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Skills

- Scala
 - Spark
 - AWS
 - Python
 - HTML/CSS
 - C/C++
 - NodeJs
 - SQL
 - JavaScript
 - React
 - Rust
 - Blender
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Employment

Software Architect III – Data Engineer, Charter / Spectrum Denver, CO, **March 2021 to Present**

Software Architect working on the data engineer team. Primarily focused on analytical data feeds, and AWS cloud service development / optimization.

Tech Stack: Scala, Spark, EMR, Lambda, Athena, S3, Python, Terraform

Accomplishments:

- Wrote common library to improve writing speed of EMR jobs by 40%-60%
- Conducted Spark/Scala trainings for the data science department.
- Wrote regression testing integration for production deployments.
- Create several CI/CD enhancements, most notably an automated migration runner for Athena to dispatch schema migrations.
- Responsible for Stakeholders Data Access Requests, interfaced with data owners to implement UAT's in our data pipelines.

Software Engineer III - tech lead, Angie's List, Indianapolis, IN, **June 2018 to March 2021**

Full stack software engineer, working on the service provider side of the business. I'm tasked with developing backend services and continually evolving the service provider's (SP) web experience.

Tech Stack: Scala (Microservices), React, Mysql, Elastic Search, Kafka, Gherkin/Cucumber/Python (Automation testing)

My responsibilities include:

- Collaborating with Product, Sales, and Mobile teams to develop platform Api's
- Implementing data aggregation jobs, allowing for consumer & analytics reporting
- Writing automated regression tests for quality assurance

Some project highlights include:

- Data migration for legacy services into current architecture. Resulted in record set reduction of over 45%.
- Join funnel redesign which resulted in ~10% lift in monthly Salesforce leads (roughly \$500k/m)

Software Engineer, DDM Webservices Inc., West Chicago, IL, **November 2014 to 2019**

Tech Stack: PHP, HTML/CSS/JQuery, Mysql

Full stack web developer, currently on an as-needed basis, working directly with the primary client, DDM Garage Doors, interfacing with the sales team and warehouse coordinator to help produce software solutions that aid daily work flow.

- Fully redesigned and developed a new home page that decreased bounce rate by 5%.
- Rewrote Wayne Dalton Spring calculator, which increased sales by over 50%.
- Used digital forensics to gather and build multiple case files against infringing companies, coordinating with hired counsel (through DDM) and resulting in over \$40,000 in award settlements.
- Developed in-house web crawler / scraper to aid in legal cases and information gathering.
- Created a mobile Android app for technical sales staff to use as a resource for contractors.

Software Engineer Intern, PAN/PSI, Carmel Indiana, **May 2017 to August 2017**

Worked as a full stack web developer with 2 other interns to create a web application to view / modify load test information. **Tech Stack:** .Net Core, MSSQL, Angular 2+

- Designed a multi-tiered web application using .Net, Entity Framework, and SQL.
 - Designed and built the user interface using Angular and PrimeNg.
 - Developed using a test-driven development with karma and fake it easy.
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Projects

Blender – Animation Module Community Developer

Technical Stack: C, C++, Python

- Continual collaboration with Core Animation & Rigging module devs on Blender's new Animation system (Animation 2025)
- Bug fixes / maintenance
- Quality of life improvements on the NLA

Ray Tracing in One Weekend – Contributor

Technical Stack: C++, HTML/CSS/Markdeep

- Project contributor, various fixes & improvements to the book(s)

Kanplan – Front End Engineer

Technical Stack: AngularJs, NodeJs, MongoDB, Ionic, and AWS EC2.

Purpose: task based management system integrated with evaluation times, job compensation, and organization models.

- Designed and implemented front end in AngularJs utilizing Ionic Framework.

SupDog – Project Lead and Backend Engineer

Technical Stack: EmberJS, NodeJs, MongoDB, Blueprint, and AWS EC2.

Purpose: Collaborative effort with a senior design team from Herron Art school to create a social application to facilitate communication within the canine-loving community.

- Lead development team using Agile collaboration.
- Designed and implemented backend API / Database models.
- Deployed application to AWS EC2 cloud instance.
- Implemented unit tests with Mocha and Chai.

AccuCrime – Full Stack Engineer github.com/i-do-code

Technical Stack: Angular, Python, Flask, MongoDB, TensorFlow, and AWS EC2

Purpose: Predicts the amount of crime in Chicago on any given day and forecasts up to ten days' worth of crime statistics.

- Fully implemented frontend using Angular and PrimeNg.

RustBridge – Full Stack Engineer devpost.com/software/rustbridge-io-t0e6fm

Technical Stack: Rust, PostGreSQL, Diesel, and Rocket

Purpose: Rewrote Rustbridge Website using Rust, making the website overall more functional and as a contribution to the Rust community.

- Worked with Mozilla Rust developers to port the Rustbridge website from NodeJs to Rust.
 - Designed Postgres database schema.
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Education

University of Illinois at Urbana-Champaign

Master of Computer Science (MCS) - **Software Engineering**

Relevant course work: Cloud Computing Fundamentals, Cloud Computing Applications (Hadoop, Spark, Storm), Cloud Computing Capstone (Kafka, Hive, Spark Streaming, EMR)

Purdue School of Science at Indianapolis

Bachelor of Science in Computer Science - **Software Engineering**

Certificates:

- AWS Certified Cloud Practitioner (CLF-C01)