

# Austin Hartline

<https://euclideansphere.github.io>

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## EDUCATION

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- **Milwaukee School of Engineering** Milwaukee, WI  
*Bachelor of Science in Software Engineering; GPA: 3.8* *Sep. 2013 – May. 2017*
- Eagle Scout; BSA

## TECHNICAL SKILLS

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- **Languages:** SQL, Ruby, Typescript, C#, Terraform, Python
- **Technologies:** PostgreSQL, ReactJS, Ruby on Rails, NodeJS, AWS

## EXPERIENCE

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- **Software Contracting, Self Employment** (Remote) Milwaukee, WI  
*Software Contractor* *Jul 2023 - Present*
  - **Rapid Delivery:** Prototype, build, and iterate on key features with tight deadlines to win customers and obtain Series A funding for a CMMS startup (NodaFi).
  - **Javascript, Node:** Build full stack features for a React-Native mobile app and a React web app backed by a GraphQL NestJS (NodeJS) web API.
  - **Performance:** Instrument DataDog telemetry and use MariaDB (MySQL) query planner to troubleshoot and improve critical performance paths.
- **Betterment, Inc** (Remote) New York, NY  
*Full Stack Engineer III* *Jan 2022 - Jun 2023*
  - **Ruby on Rails:** Design and build Ruby on Rails REST APIs, collaborating with mobile development while planning for concurrent ReactJS and StimulusJS web consumers.
  - **Data Engineering:** Lead data engineering financial audit project orchestrated with Airflow, DBT (ETL and job definition solution) against an AWS Redshift Data Warehouse.
  - **Mentorship, Leadership:** Mentor my team's junior developer on temporal SQL query optimization, data modeling, estimation, and negotiating project scope.
  - **Testing:** Ensure software behavioral correctness using Jest, RSpec, DBT test, and in-house open-source software testing solutions.
  - **Design:** Co-lead writing the design proposal of recurring transfers implementation, providing data modeling and Ruby on Rails expertise.
  - **Plaid:** Use DataDog to monitor, report, and plan Plaid integration fault tolerance and robustness improvements.
  - **Javascript:** Became a designated organization wide Javascript Platform Reviewer to provide technical support to peers and influence company web frontend standards.
  - **On Call Responsibility:** Participate in team and organization on-call processes, handling customer tickets and coordinating support for live production outages.
- **GenoPalate, Inc** (Remote) Milwaukee, WI  
*Software Engineer (Mid-Senior Level)* *Sep 2020 - Jan 2022*
  - **Javascript, Node:** Collaborate with a small team to estimate, scope, and build features for a React-Native mobile application and a React web frontend backed by an ExpressJS / Knex (NodeJS) web service.
  - **Typescript Migration:** Scope, document a plan, and lead migration effort to add type checking (Typescript) to all JS code and reduce escaped defects.
  - **Integration:** Communicate with external vendors to plan, design, and implement DNA data integrations.
  - **Influence Software Development LifeCycle:** Advocate for and lead effort to standardize testing (Jest), code review (Github), deployment process, and error monitoring (Sentry).
  - **Agile:** Participate in Agile / SCRUM process, including collaborative design sessions with stakeholders, iterative delivery, team estimations, and building consensus.
  - **Node and PostgreSQL:** Deep dive complex technical issues with RDBMS connection reuse, Node event loop, high concurrency, and data corruption.

- **PostgreSQL:** Draft written plan and execute project to upgrade AWS RDS PostgreSQL instance without unplanned downtime.
- **Shopify Integration:** Build robust fault tolerant support for Shopify order integration in Node / Typescript on AWS ECS, AWS Lambda, AWS SQS, AWS S3
- **Cloud Infrastructure / DevOps:** Pitch, plan, and lead project to standardize all AWS infrastructure deployment and CI/CD through Terraform (IaC) and eliminate error prone and insecure manual clickops deployment.

## • Wantable

Milwaukee, WI

*Senior Software Engineer*

*Feb 2019 - May 2020*

- **React, Typescript:** Assist lead UX designer in building a Typescript, React, and SCSS design system to replace CSS style guide.
- **Data Science:** Integrate rich data science models through Python and R based APIs into dynamic data rich dashboards implemented in React, Rails, Redis, and PostgreSQL.
- **Project Ownership:** Prototype, and iteratively deliver customer facing e-commerce solutions using Rails, Redis, PostgreSQL and AngularJS.
- **Warehouse Management:** Build and improve warehouse logistics and inventory management solutions in .NET and Ruby on Rails, moving 10,000+ products per day.
- **Data Integration:** Build and optimize data export jobs to marketing vendors using PostgreSQL, Materialized Views, and Rails jobs, requiring deep understanding of SQL query optimization and cloud compute cost.
- **Performance Monitoring:** Prioritize and inform performance improvements using New Relic telemetry and Sentry metrics.

## • Direct Supply, Inc

Milwaukee, WI

*Software Engineer*

*May 2017 - Feb 2019*

- **.NET Development:** Develop features and integrations for a catalog based food and equipment ecommerce solution in the eldercare industry using C#, Razor, Typescript, ReactJS, CoffeeScript, AngularJS.
- **Domain Driven Development:** Integrate domain segregated services into a monolithic .NET application considering CAP theorem, domain driven design, and fault tolerance.
- **Microservices:** Collaborate with team to design and build domain specific 12 factor microservices in C# backed by SQL Server and documented with OpenAPI.
- **Microservice Cloud Infrastructure:** Lead setup of automated infrastructure deployment to AWS ECS Fargate / AWS RDS (SQL Server) using Terraform (IaC), Hashicorp Vault, Bash, Docker, and Gitlab Pipelines.
- **Terraform:** Pioneer IaC implementation (Terraform) and teach several teams of engineers how to use.
- **Open Source Contribution:** Identify and fix bugs in Terraform AWS Provider (golang).
- **DbUp:** Write and deploy SQL Server schema and stored procedures using DbUp.
- **Event Driven Architecture:** Build AWS Lambda functions (deployed using Terraform, gitlab CI/CD) to inject domain events backend by PostgreSQL.
- **Mentorship:** Mentor intern and junior developers to increase team velocity and grow team technical strength.
- **LEAN UX User Testing:** Pilot LEAN UX methodology, prototyping new features for direct feedback from power user customers to reduce feature risk and delivery time.

## • Direct Supply, Inc

Milwaukee, WI

*Software Engineer (Intern)*

*Jan 2014 - May 2017*

- **SQL:** Debug and remedy high I/O SQL deadlocking issues, with over 1000 transactions per second.
- **Leadership:** Lead summer intern project for 17 interns, which involved: crafting a project idea, organizing meeting space, soliciting executive approval, delivering weekly status updates, and presenting a final demo.
- **RabbitMQ:** Integrate RabbitMQ event broker to connect asynchronous systems across lines of business.
- **Agile / SCRUM:** Participate in Agile Methodology (SCRUM) through daily standups, grooming, estimation, sprint review, quarterly company wide demonstrations.
- **Frontend Development:** Tackle frontend ASP.NET MVC development needs using Razor views, AngularJS, CoffeeScript, JQuery, Javascript, Bower, Backbone.js.