

## SKILLS

**Backend:** C#, Java, Python, C/C++, Ruby, Bash, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, DynamoDB, Cassandra, Redis, Firebase), ORM, cloud providers (AWS, Azure, GCP), deployment (Docker, Kubernetes, Terraform, Ansible), CDN, DNS  
**Frontend:** JavaScript, TypeScript, React, Redux, Next.js, Jest, REST, GraphQL, CSS, Sass, CORS, JWT, OAuth, WebSockets  
**Engineering:** unit testing, VCS (Git, SVN), microservices, serverless, CI/CD (Jenkins), agile (scrum, kanban), DevOps, SDLC

## WORK EXPERIENCE

**Software Developer** 📍 *Epic Systems – Madison, WI* 06/2021 - Present  
*Health management system hosted at major US hospitals, serving over 300 million patient records globally.*

- **Tools:** .NET/C#, VB, IIS, RPC, TypeScript, React, Redux, jQuery, Sass, WCAG, MySQL, NoSQL, I18N, OWASP
- Delivered projects to enhance the functionality between core applications with different userbases, patients and providers
- Mentored junior engineers in an ever-growing team owning several cross-functional areas and endpoints
- **MyChart:** *Developed accessible and internationalized features in messaging, notifications, payments, and documents*
- Reworked client state and caching to boost the performance of validating addresses and accuracy of location data
- Revamped core e-signature UI library to improve usability by refactoring React component props to decouple shared state
- **Hyperspace:** *Integrated enhancements for several cross-functional services during Chromium app migration*
- Joined initiative to leverage GPT and categorization for providers to respond faster to hundreds of patient messages daily

**Software Engineer Intern** 📍 *IOMAXIS – Hybrid - Arlington, VA* 01/2020 - 08/2020  
*Government contracting firm developing innovative cloud and cyber security solutions.*

- **Tools:** Python, Flask, Rust, React, Bootstrap, SQLite, AWS, GCP, Azure, Docker, Ansible, Kubernetes, Terraform, Vagrant
- **VPN Tunnel:** *Automated provisioning of multi-cloud OpenVPN SSL tunnel proof of concept to early product delivery*
- Implemented automated regional resource provisioning, OAuth 2.0, SSL encryption, unit tests, and Bamboo CI/CD builds
- **AI Data Streaming Platform:** *Proposed vision of cloud platform for automated AI large language model deployment*
- Deployed Kafka to stream data for pre-training BERT in anomaly detection of system logs similar to ELK stack services

**Software Engineer Intern** 📍 *Norfolk Southern – Atlanta, GA* 05/2019 - 08/2019  
*Intermodal information management team administering freight logistics data for 30% of annual revenue.*

- **Tools:** Java, JBoss, Python, C, Perl, JavaScript, Shell, MobileFirst, Cordova, Db2 SQL, Jenkins
- Wrote SQL queries for data deduplication, reporting, and disaster recovery planning of production servers
- Analyzed legacy enterprise system for JBoss rewrite and migrated mobile app features during MobileFirst rework to Cordova

## RELEVANT EXPERIENCE

**Addletic Capstone Project** 08/2020 - 05/2021  
*Development of a sports league management and social media platform for a customer product owner.*

- **Tools:** Python, Django, TypeScript, React, Bootstrap, PostgreSQL, AWS, Docker, OpenAPI, Swagger, JWT, Git
- Implemented client using React based on customer wireframes and deployed onto AWS to deliver initial concept
- Recommended to use OpenAPI Specification to architect REST API and data model to meet business requirements

**Teaching Assistant – Software Engineering** 08/2019 - 05/2021  
*Assistant for graduate cloud system design seminar taught by a senior architect with the goal of AWS certification.*

- **Topics:** SaaS, PaaS, IaaS, distributed systems, containers, serverless, autoscaling, high availability, redundancy, DevOps
- Advised projects from a tiered architecture proposal to implementation of AWS cloud services at a realistic scale
- Taught distributed, big data technologies like MapReduce, Hadoop, Spark, and event streaming

**Lab Assistant – Center for Detectors** 09/2019 - 12/2019  
*Calculated ray tracing to investigate the physical tolerances of an observatory lens for an NSF-funded project.*

- Analyzed data for particle/photon detector properties by visualizing data sets into a single plot in IDL and C/C++

## EDUCATION

**B.Sc. in Software Engineering** 📍 *Rochester Institute of Technology – Rochester, NY* 08/2017 - 05/2021

**Minors:** Mathematics & Computer Science