

TECHNICAL SKILLS

- **Proficient:** Python, Clojure, SQL, Javascript, Typescript, React, HTML, CSS
- **Exposure:** Java, Go, C, C++, R, Scala
- **Tools:** Git, Linux, Jira, MongoDB, Docker, Kubernetes, PostgreSQL, AWS, CI/CD, Kafka

EMPLOYMENT

Senior Software Engineer	OneStudyTeam	Sep 2021 - Present
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- **Study Websites - Public websites to recruit interested patients for clinical trials**
 - Clojure, Typescript, React, NextJS
 - Introduced best practices for SEO, a11y, and i18n for these websites
 - Designed and built full stack admin tool to scale the number of websites from 1 to dozens
 - Used headless CMS to improve development time from **two weeks** to **two days**
- **RPI - External API for partners to recruit interested patients into the ecosystem**
 - Lead design and development for new features to provide more transparency to partners
 - Handled developer support for API integration, improved developer onboarding
 - System recruited **100,000+** prospective patients into the clinical trial ecosystem
 - Implemented Kafka integration to synchronize data across distributed systems
 - Optimized our most-used endpoint to reduce P99 latency by **70%**
 - Used microservices architecture to decouple functionality from legacy monolith

Software Engineer	CCRI	June 2019 - Sep 2021
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- Developed greenfield machine learning pipeline for video data on an Agile team of 7
 - Microservices architecture - Python, Scala, Docker, Kubernetes, Argo Workflows, AWS
- Introduced Gitlab CI/CD pipelines to maintain software quality
 - static analysis, autoformatting, unit tests, integration tests, build and deployment
- Wrote code with an emphasis on testing, quality, and readability to build features
- Implemented binary metadata serializer for MPEG-TS video from open standards specification
- Designed/clarified several features based on underspecified customer requirements

Software Engineer Intern	Progeny Systems	May 2018 - Aug 2019
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- Implemented background subtraction algorithm (C++) to increase object detection speed by **300%**
- Developed IDE-like tooling for automated PDF parsing
- Full-stack development on Electron application with Python, Javascript, CSS, HTML, Node.js
- Developed MongoDB database visualization webapp used by 8 developers

Software Developer (Research)	Virginia Tech	Jan 2019 - June 2019
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Epideep Flu Prediction Model Visualization - <https://epideep.github.io>

- Implemented data visualization website for research team competing in CDC FluSight
- Allows users to compare time series data over multiple regions, timespans, and model predictions
- Javascript, Bootstrap, D3.js

EDUCATION

B.S. In Computer Science	Virginia Tech	Sep 2015 - May 2019
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PERSONAL PROJECTS

- www.wcedmisten.fyi - Personal blog documenting my open source projects. NextJS and Typescript

AWARDS

- Eagle Scout (2014)
- Phi Beta Kappa Honor Society (2019)