



Connor Brereton

Software Engineer with DevOps chops

👤 Profile

I'm a software engineer passionate about solving business and social problems at scale with a cutting edge toolbox. Aside from software engineering I'm an author on 3 utility patents (2 of which I wrote myself). I thrive in collaborative work environments where ethics, communication, and diversity are at the forefront of values.

📁 Employment History

Software Engineering Intern at Cisco Systems, San Jose, CA

June 2018 – Present

Developed an autonomous ETL pipeline that partitioned highly sensitive data into a distributed, containerized, and fault tolerant system consisting of the following parts: AWS EC2 data lake, MySQL data warehouse, and a Kibana analytics dashboard.

Identified, scaled, and shipped product to a use case that helped 1000+ sales and engineering co-workers increase collaborative information sharing.

Technical Specifications: Kubernetes & Docker for micro-service architecture. Celery & Redis for job scheduling and automation. Django 2.2 for full stack web application. Kibana for visualization of business intelligence. GitHub Enterprise API for data source. MySQL & AWS for data storage.

Data Science Intern at Cisco Systems, Seattle, WA

June 2017 – September 2017

Co-developed intellectual property “Exploit Prevention System for Distributed Machine Learning Environments” similar to Naive Bayes & XGBoost. Published it in a patent application alongside a team of 2 PhD candidates.

Cisco Patent Application #1014623

Technical Specifications: R (programming language) for data "wrangling", mathematical modeling, and data visualizations.

🎓 Education

Computer Engineering, Santa Clara University, Santa Clara, CA

September 2016 – September 2018

Completed 3/4 of my degree and self taught the rest. Planning on completing a degree in mathematics at night once I obtain WA state residency. 3.52 GPA

Relevant Coursework: Algorithms, Compilers, Data Structures, Discrete Mathematics w/ Graph Theory, Databases, Embedded Systems, Networking, Operating Systems, OOP, Programming Languages, Software Engineering, Single/Multi-variable Calculus, Statistics & Probability.

Details

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Links

[LinkedIn \(Extended CV\)](#)

[Medium \(Blog\)](#)

[GitHub \(Portfolio\)](#)

Skills

Assembly (x86)

C (ISO 9001)

Python (Django, Flask)

SQL/NoSQL (MySQL, Redis)

JavaScript (Vanilla)

HTML/CSS (Bootstrap)

DevOps (Docker, Kubernetes, Git, Travis, Nginx)

Linux (Ubuntu, Alpine)

AWS (EC2, Elastic Beanstalk)

Data Visualization (Kibana, D3.js)

Mathematics (R)

Hobbies

Fly-Fishing, Running, Reading, Traveling, Volunteering, and Writing

Languages

American Sign Language

Spanish

References

References available upon request