

## Connor W. Brereton

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### EDUCATION

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**SANTA CLARA UNIVERSITY**, Santa Clara, CA. June 2018.  
B.S., Computer Engineering\*  
Overall GPA: 3.52

### COMPUTER SKILLS

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C (ISO), Python (Django), SQL/NoSQL, Javascript (React, D3), HTML/CSS, Swift (learning), Docker, Kubernetes, Travis, Nginx, AWS, Git, Linux, iOS.

### WORK EXPERIENCE

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**Cisco Systems, Inc.** San Francisco Bay – Seattle. June 2018 - Current  
*Software Engineer* – Wrote an autonomous ETL pipeline that partitioned highly sensitive data into a distributed, containerized, and fault tolerant system. Identified, scaled, and shipped product to a use case that helped 5000+ sales and engineering staff increase data throughput and revenue conversions.

**Cisco Systems, Inc.** Seattle, WA. June 2018 – September 2018  
*Data Scientist (Contractor)* – Co-developed intellectual property “Exploit Prevention System for Distributed Machine Learning Environments” similar to Naïve Bayes & XGBoost then published research and prototype in a patent application alongside a team of 2 PhD researchers. *Cisco Patent Application #1014623*.

### PROJECTS

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**Simple Shell:** Implemented the Bourne Shell in ISO compliant C from scratch using only the standard C library. Optimized the application by using a priority queue as the backbone data structure.

**Flock:** An AWS Glue replica that is a fully automated ETL pipeline built from scratch. Django for backend, Javascript & HTML/CSS for frontend, Postgresql for data storage, Docker & Kubernetes for distributed container system. Celery & Redis for automation.

**Mr. Clean:** A closed-source social media SaaS tool that uses a database of politically incorrect and vulgar words along with NLP sentiment analysis to scan social media to ensure that profiles are clean for job hunt. Working on implementing a commercial feature to create an alerting system to monitor accounts for compromised data, doxing, and digital slander. Architecture: Django for backend, React for frontend, MySQL for data storage, Docker & Kubernetes for distributed container system, Twilio API for alerting.

**Hacker Dictionary:** Aggregating technical terminology to improve the global technical literacy rate.