

Matthew Braun

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Detail-oriented Software Developer who offers a strong work ethic and versatility. My Mathematical background provides me keen insight on problem-solving and mathematical modeling/algorithms.

EDUCATION

Fullerton, CA	<i>California State University, Fullerton</i>	May 2020
<ul style="list-style-type: none">Dual Bachelor's: Bachelor of Science in Computer Science and Bachelor of Arts in MathematicsGPA: 3.98 In-Major, 3.93 OverallProgramming Classes: Data Structures, Algorithms, Distributed Computing, Cryptography, Linux Development, Operating Systems, Cloud Computing/Security, Artificial Intelligence, NetworkingMathematics Courses: Linear Algebra, Topology, Statistical Analysis, Calculus, Mathematical Structures, Combinatorics, Differential Geometry, Abstract Algebra		

EXPERIENCE

Cisco Systems	<i>Software Engineer</i>	August 2020 – Present
<ul style="list-style-type: none">Managed Google Cloud Project resources for 13 projects across 3 teams, including over 30 individualsDeveloped Bash and Python tools to assist deployment for machine learning models and applicationsDefined organization-wide cloud architecture with Terraform using infrastructure as code best practicesDebugged deployed applications including thousands of lines of codeUtilized tools such as Jenkins and Atlantis for continuous integration and continuous deploymentTracked and logged work using Jira, and participated in team scrum meetings to delegate tasks		
Cisco Systems	<i>Software Engineer Intern</i>	June 2020 – August 2020
<ul style="list-style-type: none">Built application to parse 1,722 technical assistance center cases including 4 million lines and 22 million words for relevant information, employing dynamic programming, regex, and natural language processingAnalyzed and restructured 6 machine learning models to conform to “MLflow” structural requirementsInitiated and led creation of 3 scripts to help team parse and label dataImplemented tool to assist team with moving 16 programs between 3 distinct environments		

PROJECTS

Graduate-Level Research	<i>Knot Theory (Mathematics)</i>	Under: Dr. Matt Rathbun
<ul style="list-style-type: none">Facilitated development of new software tool in Python to discover more “Hard Unknots”Collaborated with professor in writing 3 classes and 14 methods to map knot objects and to generate a reasonable, consistent way of labeling knot diagrams regardless of orientation in two-dimensional space		
Personal Website	<i>github.com/mbraun5/Website</i>	HTML/JS/CSS
<ul style="list-style-type: none">Designed, styled, and built website from scratchLeveraged media queries and Javascript to ensure consistency between platforms and all devices		
Cryptography Algorithms	<i>github.com/mbraun5/CryptoAlgorithms</i>	Python
<ul style="list-style-type: none">Constructed a python package to encode or decode 7 distinct introductory CiphersCreated 22 unit tests and a Travis script for continuous integration and a Makefile for local development		

SKILLS

- Languages and Frameworks:** C, C++, Python, Javascript, HTML/CSS, Terraform, Bash
- Soft-Skills:** Skilled in public speaking, innovative, resourceful, collaborative, dependable, self-driven, competitive, empathetic, and friendly