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   *California State University, Fullerton*   **May 2020**

- **Dual Bachelor's:** Bachelor of Science in Computer Science and Bachelor of Arts in Mathematics
- **GPA:** 3.98 In-Major, 3.93 Overall
- **Programming Classes:** Data Structures, Algorithms, Distributed Computing, Cryptography, Linux Development, Operating Systems, Cloud Computing/Security, Artificial Intelligence, Networking
- **Mathematics Courses:** Linear Algebra, Topology, Statistical Analysis, Calculus, Mathematical Structures, Combinatorics, Differential Geometry, Abstract Algebra

EXPERIENCE

Cisco Systems   *Software Engineer*   **August 2019 – Present**

- Managed Google Cloud Project resources for 13 projects across 3 teams, including over 30 individuals
- Developed Bash and Python tools to assist deployment for machine learning models and applications
- Defined organization-wide cloud architecture with Terraform using infrastructure as code best practices
- Debugged deployed applications including thousands of lines of code
- Utilized tools such as Jenkins and Atlantis for continuous integration and continuous deployment
- Tracked and logged work using Jira, and participated in team scrum meetings to delegate tasks

Cisco Systems   *Software Engineer Intern*   **June 2019 – August 2019**

- 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 processing
- Analyzed and restructured 6 machine learning models to conform to "MLflow" structural requirements
- Initiated and led creation of 3 scripts to help team parse and label data
- Implemented tool to assist team with moving 16 programs between 3 distinct environments

PROJECTS

Graduate-Level Research   *Knot Theory (Mathematics)*   **Under: Dr. Matt Rathbun**

- 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   *github.com/mbraun5/Website*   **HTML/JS/CSS**

- Designed, styled, and built website from scratch
- Leveraged media queries and Javascript to ensure consistency between platforms and all devices

Cryptography Algorithms   *github.com/mbraun5/CryptoAlgorithms*   **Python**

- Constructed a python package to encode or decode 7 distinct introductory Ciphers
- Created 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