

# Galen Borgman

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## Teamwork-Oriented Software Engineering Student

Software engineer with advanced written and oral communication skills and diverse knowledge of data structures and algorithms. Thrives in focused, small-group settings and seeks to build community and teammates' skills with his own.

Python | C | JavaScript | Java | GIT | VIM | VMware

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### Education

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Computer Science, June 2022

Major GPA: 3.9

### Computer Science Projects & Experience

#### Systems Validation Engineering Intern at Aruba (June 2020-August 2020)

- Developed and fixed python scripts automating test cases
- Investigated test case failures to ensure quality assurance
- Controlled versioning utilizing git and gerrit code review
- Saved between \$10,800 – 18,000 through automation of manual work

#### Scrum-tious (March 2020 – June 2020)

- Developed web-based task management system targeting new software developers
- planned, strategized, and executed a scrum-based software development plan short timeframe
- Delegated responsibilities within small group of peers

#### White Hat at Cal Poly (September 2018-Present)

- Participated in weekly "Lightning Talks" on current issues within the tech industry
- Explored wireless security through the usage of Wireshark
- Managed personal Virtual Machines to develop code in Linux environment

#### Python

- Created time-efficient search algorithm for San Francisco crime database
- Utilized relevant data structures to solve problems
  - Evaluated and converted between infix, postfix, and prefix expressions
  - Designed methods for compression of .txt files utilizing hash tables and concordances
- Tested project code extensively with 100% code line coverage

#### Java

- Refactored Java program from a procedural paradigm to object-oriented
- Translated Python code to Java and presented language differences to instructor
- Presented on the Java language's influences and the languages it inspired

#### Assembly

- Developed common library commands (strstr, atoi) in assembly on the RISC-V processor
- Converted high-level (python) source code into assembly language
- Organized I/O devices from low-level instructions

#### JavaScript

- Developed animated projects influenced by classic art styles using JavaScript's P5.js
- Collaborated with small team to animate presentation on current environmental issues

### Skills

**Programming Languages:** Javascript (Node.js, P5.js), Python, C, Java (Vaadin, JavaFX), HTML/CSS,

**Software Tools:** Selenium, Amazon Web Services(AWS) VIM, GIT, IntelliJ IDE,

### Leadership

Eagle Scout, Treasurer and Competitive member of Cal Poly Ballroom Dance Team, Cal Poly Symphony