

# AARON KRATZ

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## EDUCATION

### Arizona State University

BS Software Engineering *GPA: 3.0*

Tempe, AZ  
Jan 2017 - Dec 2019

## SKILLS

Languages: Java, Javascript/Node.js, C, C++, Python, HTML5, UML, Bash  
Tools: Eclipse IDE, IntelliJ IDE's, Git, Ant/Gradle, Linux  
Practices: Agile/Scrum

## PROJECTS

### Memoranda GitGet Java, Git, XML

<https://github.com/ser316asu-2018/braunfels>

Project using Agile methodology to enhance the open-source project "Memoranda", implementing statistics and project tracking through the GitHub API. Met and coordinated with team to meet sprint goals. Received an A grade.

### Axelrod Python, Git

<https://github.com/Axelrod-Python/Axelrod>

Implemented new methods and strategies to improve the open-source project Axelrod, a Python library devoted to research of the "Prisoner's Dilemma".

### Mars Rover Simulation Python, Bash, Apache2

A project to design, build, and implement code necessary for a robot that could be controlled over the internet from school classrooms as a educational activity. Increased revenue and client interest in company programs.

### Sakai Progress Tool Java Spring, MySQL, Thymeleaf, Javascript, Linux

<https://github.com/jmross14/sakai>

Feature update to the Sakai learning management system to implement new MVC components necessary to show instructor and student views of relevant course progress data. Increases product value to generate interest in client's support services.

## EVENTS

### Presenter - Sakai Virtual Conference 2018

Presented at Sakai Virtual Conference 2018 to demonstrate Sakai Progress Tool design and future plans for the project to the Sakai community

November 2018

## WORK EXPERIENCE

### Self Employed

*Owner*

Phoenix, AZ  
July 2017 | Present

- Business Planning
- Day-to-day operation
- Business Technology

### Challenger Space Center

*Programmer/Instructor*

Peoria, AZ  
May 2017 | January 2018

- Develop Mars Rover Project for use in educational programs to teach children about Mars and how NASA uses their rover to explore the planet
- Teach classes about different topics of Chemistry, Astronomy, or Physics to children and young adults
- Help develop educational programs to teach Python to young students

### Tenkoris

*Capsule Production Tech*

Phoenix, AZ  
June 2015 | September 2016

- Operate and provide maintenance to encapsulation machinery and related equipment
- Develop supplement formulations and test their potential for mass production
- Create SOP and MMR documentation to improve department best practices

### Brookdale Senior Living

*Security*

Peoria, AZ  
October 2010 | June 2015

- Maintain logs and input security data
- Provide interdepartmental information and event reports
- Provide medical, security, and hospitality services to residents and patients