

# AARON KRATZ

Phoenix, AZ · akratz2@gmail.com · 602-561-6601 · www.aaronkratz.com

## EDUCATION

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### Arizona State University

BS Software Engineering

Tempe, AZ

Jan 2017 - Dec 2019

## SKILLS

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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

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### Memoranda GitGet Java, Git, XML

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

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

### Axelrod Python, Git

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

Implemented new methods and strategies for 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.

### 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.

## EVENTS

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### 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

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### Self Employed

Phoenix, AZ

July 2017 | Present

- Business management
- Day-to-day operation

### Challenger Space Center

Peoria, AZ

Programmer/Instructor

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

Phoenix, AZ

Capsule Production Tech

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

Peoria, AZ

Security

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