

AARON KRATZ

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EDUCATION

Arizona State University
BS Software Engineering *GPA: 3.01*

Tempe, AZ
Jan 2017 - May 2020

WORK EXPERIENCE

Visa Inc.
Software Engineering Intern

Highlands Ranch, CO
May 2019 - August 2019

- Member of 12 person SCRUM team developing new product
- Created REST APIs to give clients real-time access to secure business data and functionality
- Created encryption management service available to hundreds of developers, decreasing implementation time and complexity by up to 50%
- Java Spring framework, MongoDB, Git, Maven, Jira

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

SKILLS

Languages:	Java, Java Spring, Javascript, Node.js, C, C++, Python, HTML5, CSS, MySQL
Tools:	IntelliJ IDE's, MongoDB, Git, Maven, Linux, JIRA
Development Methodologies:	Agile/Scrum, TDD, REST, SOAP, API Development, MVC

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 research project, Axelrod, a Python library focused on game theory and the "Prisoner's Dilemma".

Mars Rover Simulation *Python, Bash, Apache2*
A project to design, build, and implement code for a robot system that could be controlled over the internet from school classrooms as a learning activity. Increased revenue by 10% and client interest in company programs by roughly 20%.

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 AND AWARDS

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

Arctic Code Vault Contributor 2020 Microsoft/Github
Designated as a contributor to code that will be stored in the Arctic World Archive, meant to preserve a snapshot of current research development for the next 1,000 years.
February 2020