AMYBEA WALDER

COMPUTER SCIENTIST
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EDUCATION

Worcester Polytechnic Institute, Worcester, MA, B.S. Computer Science, May 2018

Additional coursework at Portland State University, Portland, OR, Sept. 2018 – March 2019

Relevant coursework includes Software Engineering, Software Security Engineering, Intro to Artificial Intelligence, Machine Learning, Database Systems, Algorithms, Linear Algebra, Probability, Statistics, Discrete Mathematics, Data Management in the Cloud and Cluster Computing, Full Stack Web Development (Graduate), Cryptography

LANGUAGES & SOFTWARE

Python, Java, Javascript, SQL, CSS, HTML, Groovy, Git, Linux, Google Cloud Platform, Elastic Stack, Visual Studio Code, Jira, Jess, Adobe Photoshop and Animation, Maya, Google Analytics

EXPERIENCE

OPEN-SOURCE PROJECT CONTRIBUTION
DEC. 2023 TO PRESENT
*Contributed to front end of open-source Vue and JavaScript project (uml.cafe) as well as additions to the project API, to successful first release.

US GEOLOGICAL SURVEY, FT. COLLINS, CO (REMOTE)
OCT. 2022 TO NOV. 2023 (40 HR/WK)
COMPUTER SCIENTIST GS-12 ($88.5K / year)
*Development of MVC web application with Grails (datadash) to help Fort Collins project managers and assure data persistence in a database on AWS.

MITRE CORPORATION, BEDFORD, MA
FEB. 2021 TO OCT. 2022 (40 HR/WK)
ASSOCIATE SOFTWARE ENGINEER ($87K / year)
*Back-end and front-end software development for Bluetooth LE communication between an Android app and microcontrollers. This user-focused effort includes an intuitive front-end interface.
*Development of Blazor web application and database.
*Rules engine coding for backwards compatibility of radio protocols.

OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TN
SEPT. 2019 TO SEPT. 2020 (40 HR/WK)
RESEARCH ASSOCIATE, GEOINFORMATICS ENGINEERING GROUP ($50K/year)
*Back-end software development for machine learning software used to identify images. The software utilized map-based user input and queried the Elasticsearch geolocation database.

OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TN
MAY 2019 TO AUG. 2019 (40 HR/WK)
INTERN, GEOINFORMATICS ENGINEERING GROUP
*Played a crucial role in design and development of real-time dashboards for data analytics purposes. Assisted with both system and user metrics visualization.

SENIOR THESIS, WORCESTER POLYTECHNIC INSTITUTE
SEPT. 2017 TO APRIL 2018
*Teamed with another student to create a Java based Android app for patients with chronic pain as well as a back-end database.
*Application of agile scrum methodology.

US GEOLOGICAL SURVEY, VANCOUVER, WA
FEB. 2016 TO AUG. 2016
VOLUNTEER INTERN, FIELD ENGINEERING AND INSTRUMENTATION TEAM (30 HR/WK)
*Wrote C test code for a microcontroller on in-house designed hardware used at remote volcano-monitoring sites.
*Used Python to transform large datasets into a compelling and useful form that could be utilized by USGS scientists in their work.