

Alex Kautz

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Goal: Software Engineer position for programming in Python, Java, or C#. Seek to work on a highly collaborative team that uses agile development techniques such as daily scrum meetings and peer programming.

Skills: Significant experience in Python and Java programming and principles of software development gained during internships and university studies and internships. Strong collaboration and people skills.

Work Experience

Software Engineer, Microsoft

Virtual

January 2021 to Present

Joined company as member of Windows Defender Fundamentals Team.

- Created PowerBI functionality to display performance data from Windows Defender engine.
- Gained experience in Microsoft intra-web such as Azure DevOps

Software Engineering Intern, 1010Data

New York City

Summer 2019

Completed 10-week internship in the backend software team at a cloud analytics company.

Skills Developed:

- Python Programming: I worked on a web back-end in Flask (Python) to manage Apache Airflow instances. I developed experience with REST APIs and database management through the Python library SQLAlchemy.
- Agile software development: Participated in daily scrum meetings and learned principles of unit testing and other aspects of agile development.

National Science Foundation Research Experience for Undergraduates

University of Minnesota

Minneapolis, MN

Summer 2017

Implemented an interactive graphical user interface for an image-based rendering and relighting tool for cultural heritage applications. Co-authored paper presented at Archiving 2018 conference.

Skills Developed:

- Graphical user interface development: I used JavaFX library to create an interactive user interface for existing Java codebase for creating 3-D models from still photographs.

Education

B.A. in Computer Science, Minor in Mathematics

University of Rochester

Rochester, NY

June 2020

GPA: 3.9

Skills Developed:

- Python and Java Programming: All my coursework was completed in Java and Python.
- Upper-level coursework: Artificial Intelligence, Human-Computer Interaction, Theory of Computing, Introduction to 3-D Modeling, Honors Calculus, Linear Algebra

Computer Science Writing

Unit testing in python – [Blog: Paper Review: Test Coverage in Python Programs](#)

Accessibility – [Blog: How people and technology turned my differences into strengths](#)