

# Alex Giovannelli

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## EXPERIENCE

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### Virginia Polytechnic Institute and State University

Aug. 2021 – Present

#### Graduate Teaching Assistant

Blacksburg, VA

- Advisal of students during scheduled office hours and class lectures
- In-class assistant for course instructor
- Maintain honor code in accordance to university policy via code review process

### JPMorgan Chase & Co.

Jul. 2018 – Jul. 2021

#### Associate Software Engineer

Columbus, OH

- Design and development of front-end features for Chase.com (i.e. Chase Offers, Security Center, Chase Relief Hub, Saved Account Manager, etc.)
- Generation of technical documentation for product owners and programmers
- Subject-matter expert in automation testing and CI/CD initiatives
- Mentorship of new employees and interns
- **Highlights:** Promoted from Software Engineering Program after one year of service, lead developer for COVID-19 Support hub, lead volunteer in Software Engineering Program recruitment workstream

### Siemens Healthineers

Jan. 2017 – Aug. 2017

#### Software Engineering Intern

Forchheim, DE

- Development of software in advanced therapy devices
- Creation and documentation of high-level structures of the system design
- Representative in international software system integration meetings
- Scrum Master for two development iterations

### Granville Exempted Village Schools

May 2016 – Jul. 2016

#### Systems Administrator Intern

Granville, OH

- Provision of systems administration support for Windows and Linux systems including server and workstation upgrades
- Development and deployment of operating system applications, packages, and images
- Management of summer technician team operations

### Matrix Technologies, Inc.

Aug. 2015 – Dec. 2015

#### Computer Programmer and Systems Analyst Intern

Maumee, OH

- Generation of new software and modifications in accordance to Agile methodology
- Management of internally-developed software for Project Managers
- Maintenance of database for storage of project data
- Manual creation for use of internal software tools
- Process Improvement Team member; **received a return offer** for a full-time position

### Matrix Technologies, Inc.

Aug. 2014 – Dec. 2014

#### Computer Programmer and Systems Analyst Intern

Maumee, OH

- Enhancement and expansion of internal software solutions
- Coordination of project design changes with stakeholders
- Research for unit test implementations in existing software
- Process Improvement Team member; **received a return offer** for an internship position

## EDUCATION

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### Virginia Polytechnic Institute and State University

*Master's of Science in Computer Science*

Aug. 2021 – May 2023

Blacksburg, VA

- **Coursework:** Information Retrieval, Programming Languages

### University of Cincinnati

*Bachelor's of Science in Computer Engineering*

Aug. 2013 – May 2018

Cincinnati, OH

- **Achievements:** Admitted in honors International Cooperative Education Program for German Experience, Cincinnati scholarship recipient
- **Minors:** Computer Science, German Studies

## PROJECTS

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### 3DUI Virtual Reality Technique Enhancement

Oct. 2021 – Present

*Research Project*

- **Summary:** Research and improve upon several classic 3DUI interaction techniques in virtual reality
- **Discipline:** Human-Computer Interaction
- **Technologies:** C#, Unity, SteamVR

### Empirical Evaluation of Web Applications using JavaScript and WebAssembly

Aug. 2021 – Dec. 2021

*Course Project*

- **Summary:** Creation of WebAssembly and JavaScript workbench for evaluation of programming language execution time and energy efficiency
- **Discipline:** Software Engineering
- **Technologies:** Go, JavaScript, Rust, HTML/CSS, Git

### Empirical Study of Neural Question-Answering Models

Aug. 2021 – Dec. 2021

*Course Project*

- **Summary:** Generation of Jupyter Notebooks to test and compare deep neural models against question-answering task
- **Discipline:** Machine Learning
- **Technologies:** Python, Jupyter Notebook, Git

## SKILLS

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**Programming Languages :** JavaScript, Python, Go, Java, C#, HTML/CSS

**Tools :** Unity, Git, Jira, Figma, Cucumber, axe DevTools, Azure DevOps Server, SteamVR