

# Jacob Grady

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## PROFESSIONAL EXPERIENCE

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### **Ansys Inc.**

*Software Development Co-op*

August 2019 – May 2021

- Collaborated with the development team to implement new features into existing software using and following coding standards
- Responsible for optimizing queries utilized in unit testing to decrease runtime and improve performance by 14% from the original runtime
- Implemented an internal tool to automatically update outdated files containing previous product versions to their current version
- Worked on improving documentation on development training guides to effectively train new and existing team members
- Responsible for diagnosing and resolving defects on several projects

### **Learning Research and Development Center**

*Research Assistant*

October 2017 – May 2019

- Contributed to ongoing research on the learning styles of elementary children
- Graded data and adjusted grading to new standards provided by superiors
- Entered information into a database for later analysis

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## SKILLS

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- Programming languages – Java, JavaScript, MATLAB, Python, C#, C++
- Software- Excel, HTML/CSS, NET Core, .NET Framework, ASP.NET MVC

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## PROJECTS

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### **Budgeting Application**

- User is able to keep track of their monthly expenses for multiple categories from a RESTful service using AJAX calls
- Used Python's Flask and HTML/CSS along with SQLAlchemy for database organization

### **Train Simulation Application**

- Worked within an agile team of six in order to develop a train simulation application
- Developed application using python and python's tkinter for the graphical interface
- Built module in order to control train departures and pathing

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## VOLUNTEER WORK

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### **Coding+**

*Camp Counselor*

June 2016 - August 2018

- Developed local coding club at public library with several classmates
- Mentored elementary-aged children in the fundamentals of coding using MIT's Scratch
- Monitored each camper's progress and assisted them with any questions

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## EDUCATION

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### **University of Pittsburgh**

*Computer Engineering*

August 2021

- Graduated magna cum laude (GPA: 3.7/4.0)
- Dean's Honor List (2020 & 2021)