

# Aditya Mansharamani

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## EDUCATION

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**Bachelors of Science, Computer Science** - University of Illinois, Urbana-Champaign

May 2021

- James Scholar, Campus Honors Program
- Relevant coursework: Numerical Methods, Data Structures, Computer Architecture, Applied Machine Learning
- Programmer for Illini Motorsports Formula SAE, Electronics Subsystem
- GPA: 3.61

## EXPERIENCE

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**CS 126 Software Design Course Staff** - University of Illinois, Urbana-Champaign

January 2019 – Present

*Course Assistant*

- Provide constructive criticism to students during weekly code review, with emphasis on readability and maintainability
- Assist students with Java, C++, and git during office hours

**Holscher Lab** - University of Illinois, Urbana-Champaign

September 2018 – Present

*Undergraduate Research Assistant*

- Conduct computational and statistical analysis of microbiome DNA data using a variety of numerical methods to quantitatively examine the impact of diet on the gut microbiome
- Utilize bioinformatics software such as QIIME2, DIAMOND, and MEGAN to contribute to modern big data analyses related to metagenomics and metabolomics

**Encompass Human Capital**

June 2018 – August 2018

*Software Development Engineer Intern*

- Expanded programmatic completion of state tax withholding certificates in payroll software to include all states
- Architected modular system for adding and updating new document types to the software, significantly increasing code maintainability and expandability
- Redesigned parts of the previously desktop-only payroll web portal to be mobile-friendly and responsive
- Worked with C#/ASP.net, Kendo/MVC, HTML/CSS/jQuery, and MySQL

**Northwestern University** – Department of Physics

May 2017 – August 2017

*Research Intern*

- Built instrument in NI LabView to automate lab data collection, allowing the 20+ hour process to be run overnight repeatedly without user input
- Performed lab experiments and sanitized data, used curve-fitting and visualization techniques to analyze data
- Created visualization for ongoing data collection processes using Python, numpy, and matplotlib, allowing tainted data sets to be thrown out before wasting valuable lab time

## PROJECTS

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**stevenson.space**

- Developed and maintained website to help high school students stay organized on a day-to-day basis
- Crafted performant code and minimized bloat in order serve 30K page views to over 4,000 students per day

**Watchdog**

- Built facial recognition platform for classrooms using Microsoft Cognitive Services API, automating student attendance and providing real-time analysis of student emotions
- Won Qualtrics Best Data Visualization award at MHacks X

## SKILLS

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<b>Desktop</b>	C, C++, C#, Java, Python, Electron	<b>Mobile</b>	Android, Flutter
<b>Web (front-end)</b>	HTML/CSS/SASS, JavaScript (ES6), React/Redux, Vue/Vuex	<b>Web (back-end)</b>	Firebase/GCP, AWS, Node.js
<b>Systems &amp; Tooling</b>	Git, Linux, Bash		