

# Bob Wilson

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After a long career as an Animator working at some of the world's top studios in Feature Animation, Visual Effects, and Video Games, I'm changing careers by studying **Computer Science** to become a **Software Engineer**

## Education

### Michigan State University

Bachelor of Science in Computer Science, Math Cognate. (Expected graduation Dec 2026)

May 2024 – current

East Lansing, MI

### Washtenaw Community College

Computer Science Classes, 4.0 GPA, Dean's List - High Honors

Jan 2024 – Apr 2024

Ann Arbor, MI

### Macomb Community College

Associate of General Studies, 4.0 GPA, summa cum laude, Dean's List  
Studied Media & Communication Arts, Digital Art & Animation Specialty

Warren, MI

## Experience

### Robotics Software Engineering Intern

Skydio (via Open Avenues Foundation)

Feb 2024 – Apr 2024

San Francisco, CA (remote)

- Developed a working dynamics simulation and feedback controller of a Skydio quadrotor drone
- Wrote quality Python code in a team environment using VS Code and packages NumPy, SciPy, and SymForce
- Delivered a GitHub repository with Jupyter notebooks that include implementations and derivations

### Animator

DreamWorks Animation

Jan 2023 – Dec 2023

Glendale, CA (remote)

- Animator on films *Trolls Band Together* and *Kung Fu Panda 4*
- Filed dozens of detailed Jira tickets (bug reports) to improve animation software Premo and the 3d character rigs
- Worked with Technical Directors and Software Engineers to troubleshoot issues and test bug fixes

### Animator

Pixar Animation Studios

Dec 2021 – Dec 2022

Emeryville, CA (remote)

- Animator on *Cars On The Road*, Crowd Animator on *Elio* and the Oscar-Nominated film *Elemental*
- Filed over 100 bug reports and feature requests regarding their proprietary animation software Presto
- Contributed feedback on early version of their layered animation tool
- Worked closely with Animation Tools department and Software Engineers to troubleshoot issues and test bug fixes

More info on my previous career as an Animator, including full resume and awards list: [www.bobwilsonanimation.com](http://www.bobwilsonanimation.com)

## Projects

### Prime And Composite Numbers Generator

Apr 2024

- Team coding project won 1st place in Project Codeway competition in Washtenaw Community College's Intro to CS class
- Wrote 100% of the Python code for app that generates prime and composite numbers, and factorizes composites
- Project Lead, came up with most of the ideas, demonstrated the app to the class, and was voted Team MVP

### Data Science Visualization - Crime Statistics Analysis

Apr 2024

- Analyzed FBI crime data using Python in WCC Intro to Python class, utilized JSON and Pandas modules for data processing
- Generated bar charts and tables for regional crime statistics relative to the national average

## Technical Skills

**Languages:** Python, C++, HTML, SQL

**Developer Tools:** VS Code, Jupyter Notebook, Git, GitHub, Perforce, Mac, Windows, Linux, Jira

**Libraries:** Pandas, NumPy, SciPy, SymForce, Matplotlib, JSON, REST API

**Certifications:** [PCEP Certified Entry-Level Python Programmer](https://www.pythoninstitute.org/certification) (Python Institute PCEP-30-02)