

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 <i>Skydio (via Open Avenues Foundation)</i> <ul style="list-style-type: none">Developed a working dynamics simulation and feedback controller of a Skydio quadrotor droneWrote quality Python code in a team environment using VS Code and packages NumPy, SciPy, and SymForceDelivered a GitHub repository with Jupyter notebooks that include implementations and derivations	Feb 2024 – Apr 2024 San Francisco, CA (remote)
Animator <i>DreamWorks Animation</i> <ul style="list-style-type: none">Animator on films <i>Trolls Band Together</i> and <i>Kung Fu Panda 4</i>Filed dozens of detailed Jira tickets (bug reports) to improve animation software Premo and the 3d character rigsWorked with Technical Directors and Software Engineers to troubleshoot issues and test bug fixes	Jan 2023 – Dec 2023 Glendale, CA (remote)
Animator <i>Pixar Animation Studios</i> <ul style="list-style-type: none">Animator on <i>Cars On The Road</i>, Crowd Animator on <i>Elio</i> and the Oscar-Nominated film <i>Elemental</i>Filed over 100 bug reports and feature requests regarding their proprietary animation software PrestoContributed feedback on early version of their layered animation toolWorked closely with Animation Tools department and Software Engineers to troubleshoot issues and test bug fixes	Dec 2021 – Dec 2022 Emeryville, CA (remote)

More info on my previous career as an Animator, including full resume and awards list: www.bobwilsonanimation.com

Projects

Prime And Composite Numbers Generator <ul style="list-style-type: none">Team coding project won 1st place in Project Codeway competition in Washtenaw Community College's Intro to CS classWrote 100% of the Python code for app that generates prime and composite numbers, and factorizes compositesProject Lead, came up with most of the ideas, demonstrated the app to the class, and was voted Team MVP	Apr 2024
Data Science Visualization - Crime Statistics Analysis <ul style="list-style-type: none">Analyzed FBI crime data using Python in WCC Intro to Python class, utilized JSON and Pandas modules for data processingGenerated bar charts and tables for regional crime statistics relative to the national average	Apr 2024

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)