Bob Wilson

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Computer Science Student seeking summer 2025 Software Engineering internship in Southeast Michigan or remote.

Education

Michigan State University	May 2024 – current
B.S. in Computer Science with Math Cognate. GPA: Summer 2024 4.0, cum 3.515. Expected graduation May 2027	*East Lansing, MI*
Washtenaw Community College	Jan 2024 – Apr 2024
Computer Science Classes, 4.0 GPA, Dean's List - High Honors	*Ann Arbor, MI*
Macomb Community College	*Warren, MI*
Associate of General Studies, 4.0 GPA, summa cum laude, Dean's List. Studied MACA Digital Art & Animation Specialty	

Technical Skills

Languages and Libraries: C++ (wxWidgets, CMake, STL)**,** Python (Pandas, NumPy, SciPy, SymForce, Matplotlib, JSON, REST API)
Developer Tools: VS Code, CLion, Jupyter Notebook, Git, GitHub, Perforce, Jira, Visual Paradigm, Doxygen, Mac, Windows, Linux
Certifications: PCEP Certified Entry-Level Python Programmer, Adobe Certified Expert for After Effects, Photoshop, Premiere

Selected Experience

Robotics Software Engineering Intern   Feb 2024 – Apr 2024
Skydio, the world leader in autonomous drones (in partnership with *Open Avenues Foundation*)   *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   Jan 2023 – Dec 2023
DreamWorks Animation   *Glendale, CA (remote)*
- Filed dozens of detailed bug report Jira tickets to improve animation software Premo and the 3d character rigs
- Collaborated with Technical Directors and Software Engineers to troubleshoot issues and test bug fixes
- Animated on the films *Trolls Band Together* and *Kung Fu Panda 4*

Animator   Dec 2021 – Dec 2022
Pixar Animation Studios   *Emeryville, CA (remote)*
- Filed over 100 bug reports and feature requests regarding Pixar's proprietary animation software Presto
- Collaborated with the Animation Tools department and Software Engineers to troubleshoot issues and test bug fixes
- Contributed feedback on early version of layered animation tool, suggested features to improve user experience
- Animated on the Disney+ series *Cars on the Road*, the film *Elio,* and the Oscar-Nominated film *Elemental*

More info on my previous career as an Animator working in Feature Animation (Pixar, DreamWorks), Aerospace (Williams International), Visual Effects and AR/VR (ILM, ILMxLAB), Games (EA, PlayStation), Automotive (GM), and Advertising (Skidmore Studio for agencies Doner, Campbell-Ewald, J. Walter Thompson, Young & Rubicam, with clients including Ford, Chevy, Lincoln, Mazda, Microsoft Sync, Michelin), including extended resume with awards list is available here: www.bobwilsonanimation.com

Projects

Prime And Composite Numbers Generator   Apr 2024
- Won 1st place in the Project Codeway competition in Washtenaw Community College's Intro to Computer Science class
- Wrote 100% of the Python code for team project that generates prime and composite numbers, and factorizes composites
- Voted Team MVP, Project Lead, came up with most of the ideas, and demonstrated the app to the class

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 using Matplotlib for regional crime statistics relative to the national average

Software I've Animated On: *Carne y Arena* VR (ILMxLAB, Academy Award winner), *Star Wars* mobile app AR (Lucasfilm/ILMxLAB), *The Sims 4* (EA), *Nissan Battle Test* VR (ILMxLAB), *God of War Ragnarök* (PlayStation), *Tron: Legacy* iPad App (DBML/Disney), *Jackpot Slots* mobile game (Present Creative/Funzio/Gree), *North American International Auto Show Press Kit* (Skidmore Studio)