Maxwell Altman maxwellbsunshine.com

EDUCATION

University of Illinois at Urbana Champaign December 2021
Bachelor of Science in Computer Engineering
• Worked with combinational logic circuits and FPGAs to design Processor for RISC-V assembly language
• Used MATLAB, SIMULINK, oscilloscopes, and an analog computer to create controllers for a DC motor
• Developed a custom operating system based on Linux using x86 assembly and C ++
• Analyzed and generated color palettes for images using Python in Jupyter notebooks
• Created a hardware implementation of Tetris using System Verilog on an FPGA

SKILLS

Languages: Swift, C#, C++, C, Flutter, HTML, CSS, JavaScript, Python, LUA, System Verilog, Java, Bash
UI Frameworks: UIKit, AppKit, SwiftUI, Blazor, MAUI, React JS
Software: Unity, Git, Blender, Krita, Figma

WORK EXPERIENCE

Typo **December 2022 - Present**
Founding Engineer New York City, NY
• Developed native macOS and iOS clients using both UIKit and SwiftUI to improve creative work flows
• Worked on vertical slices of functionality to iterate on ideas within 2 week cycles
• Pivoted quickly through multiple products and frameworks including mobile and web front end
• Collaborated closely with designers to create polished features with interactive gestures and animations
• Updated and optimized C# backend and postgres databases while maintaining backwards compatibility and data

Raytheon Intelligence and Technology **January 2022 – December 2022**
Software Engineer I Marlborough, MA
• Wrote scripts to facilitate networking within system and enhance Linux based operating system
• Worked within AGILE framework using two week sprints to develop code within 4MLOC code base

Teachers Insurance and Annuity Association of America (TIAA) **June 2021 – August 2021**
Technology Intern Remote
• Developed RPA bots to complete web scraping and data entry tasks
• Created product support documentation to enable maintenance of existing bots

NetMath **September 2019 – January 2022**
Student Mentor Champaign, IL
• Mentored 15 students per semester in a self paced, mathematica based, differential equations course
• Assisted students by debugging code, explaining concepts, and grading homework with thorough feedback
• Received highest scores on feedback forms from students out of any mentor, for two semesters in a row

Illinois Scholars Undergraduate Research (ISUR) **September 2019 – April 2020**
Undergraduate Research Champaign, IL
• Designed and prototyped a robot capable of holding and moving a pen in order to mimic handwriting
• Created models in Solidworks which were then 3D printed and used to model basic movement using Arduino

Power Up Tech Academy **June 2018 - August 2019**
Teacher Chicago, IL
• Created lesson plans and taught students ages 5-15
• Compiled tutorials on Physical Computing and taught lessons in Python, HTML, CSS, JavaScript, and App Design to encourage a passion for Computer Science in younger student

PURE Research Project UAV Camera Development Team **February 2019 – May 2019**
Undergraduate Research Assistant Urbana, IL
• Worked in a team to develop and optimize an automatic image capture device
• Integrated thermal image capturing into existing Unmanned Aircraft Vehicle (UAV)