

ADAM J. MCQUILKIN

Hollis, NH • 603-921-2578 • adam.j.mcquilk.22@dartmouth.edu

<https://www.adammcquilk.22.com/> • <https://www.linkedin.com/in/adam-mcquilk.22> • <https://github.com/ajmcquilk.22>

EDUCATION

Dartmouth College, Hanover, NH **June 2023**
GPA 3.77/4.0
Bachelor of Arts, Major in Computer Science and Engineering, Minor in Human-Centered Design

Relevant Coursework: Software Design and Implementation⁺, Algorithms, Microprocessor SoC Development, Digital Electronics, Computer Architecture, Full-Stack Web Development, Discrete Mathematics, Networking*, Machine Learning
⁺received citation for academic excellence, *future course

Hollis/Brookline High School, Hollis, NH **June 2018**
GPA 4.31/4.0
SAT: 1550

WORK EXPERIENCE

Microsoft, Redmond, WA **June 2022 – Sept 2022**
Software Engineer Intern, PowerBI Reach Team

- Architected design patterns core to the PowerBI web authoring flow, currently in use on a product with 485K+ MAU
- Worked with senior leadership and vendor team to develop novel collision-detection algorithms to ensure report reliability

Microsoft, Remote **May 2021 – August 2021**
Software Engineer Intern, PowerBI Reach Team

- Designed and implemented a novel frontend side-effect management system, actively utilized by a 70+ developer team
- Implemented a render-queueing system in conjunction with infinite web scrolling, improving authoring speed up to 60%

Dartmouth Applied Learning and Innovation Lab, Hanover, NH **January 2019 – March 2022**
Senior Software Engineer, Development Mentor, Education Lead

- Led team to develop Dartmouth College's official term-election interface used daily by 6,000+ students
- Developed custom code templates for use in new projects which save 75+ development days per 10-week term
- Planned and executed a technical education program with 700+ student applicants and 20 student educators

D-Planner, LLC, Hanover, NH **September 2018 – June 2021**
Co-founder, Software Engineer, Product Designer

- Co-founded D-Planner, an academic planning startup with 750+ active users at Dartmouth College
- Acquired and led development of LayupList.com, a student review site with 8,000+ active users at Dartmouth College
- Presented to 30 alumni and college investors on behalf of Thayer School of Engineering as a distinguished student presenter

Nextmove Technologies, Hollis, NH **Summer 2018 (3 mos.), Summer 2019 (3 mos.)**
Head of Web Development

- Independently designed, developed, and implemented a new company web platform with custom media production
- Increased website traffic by 220%, lowered site bounce rate by 60%, and increased page views per session by 70%

ADDITIONAL EXPERIENCE

United States Patent 9,632,952 **Awarded January 2017**
Inventor, Sole Patent Holder

- Designed, developed, and patented an embedded μ C USB packet interceptor for use in gaming and systems management

PERSONAL ACHIEVEMENTS

Certified Wilderness First Responder (WFR) **May 2019 - Present**
• Achieved a perfect score in an intensive 80-hour training course focused on backcountry lifesaving and evacuation skills

New England Hundred-Highest Club **August 2005 - August 2020**
• Routed and summited the 100 highest peaks in New England, 15 of which require advanced backcountry navigation

Eagle Scout, Hollis Troop 12 **January 2017**
• Raised \$1000+ dollars and rebuilt three cabins for a nonprofit land trust leading 30+ volunteers over 650 person-hours

SKILLS & INTERESTS

Programming: TypeScript, JavaScript, Python, C, C++, C#, Java, ReactJS, NodeJS, ExpressJS, CSS, HTML, ASP.NET, Git, Bash, Linux, Vivado + Vitis HDL Suite, SystemVerilog, Verilog, VHDL, Rust (*learning*)

Interests: Digital and Product Design, Digital and Film Photography, Video Production, Hiking, Mountain Biking