

NOAH MACCALLUM

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PROFILE

Scientist and full stack engineer with a passion for high impact projects and machine learning. Proven research track record (5 academic papers, 210+ citations) in fields spanning cancer drug development, tissue engineering and applied materials. Pivoted to Microsoft, first as a PM in Bing, then as a full-stack data scientist in a incubation team/startup. Experienced with Spark, SQL, Python, Node.js, ML, and Dockerized/Open-Source stacks. Passionate about building team cultures of psychological safety and mindfulness. Looking to join early to mid-stage startups that are applying tech and machine learning to solve hard problems in bio and medicine.

EXPERIENCE

DATA SCIENTIST, MICROSOFT – 09/2015-PRESENT

- Handpicked for an elite team (LOOP) to build contextual apps and a developer intelligence platform.
- Sole reference for data science, data engineering and ML; drove product decisions and delivered high-impact analyses to leadership and execs across the company with fast turnaround and reliable results.
- Built customer-facing services and features e2e to help users manage their data; contributed code throughout the stack from client code and front-end web to our message processing infrastructure.
- Developed and launched Arrow Launcher and Next Lock Screen, with 10M+ downloads and 4.2+ star rating.

PROGRAM MANAGER INTERN, MICROSOFT – 01/2014-09/2014

- Responsible for running and improving web-scale ML systems to beat Google on the Core Relevance team.
- Developed and tested a project that used click streams to improve relevance of 300M+ users.

RESEARCH INTERN, HARVARD – 09/2012-05/2013

- Led two projects from conception to primary-author publication, applying the world's most slippery surface (SLIPS) to fabrics and medical devices.
- Contributed to development of breakthrough anti-clotting surface for DARPA-funded artificial spleen project.

RESEARCH INTERN, MIT – 01/2012-05/2012

- Led a team developing lab-on-a-chip microfluidic systems for stem cell isolation and POC diagnostics.

RESEARCH INTERN, ONTARIO INSTITUTE FOR CANCER RESEARCH – 05/2011 - 09/2011

- Helped with creation and validation of a nanoparticle cancer drug, which is now approaching clinical trials.

EDUCATION

UNIVERSITY OF WATERLOO – HONORS NANOTECHNOLOGY ENGINEERING '15
Co-Founder, UW Product Vision Club; Co-Founder, UW Apprentice; Member, No. 6 Literary Fraternity (@MIT)