## William Archer

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Education:	University of Pennsylvania, B.S.E in Computer Engineering			
	Windsor High School/Governor's School for Science and Technolo	egy (Engineering)	Class Rank: 1/119	
Work				
Experience:	Software Development Manager, Amazon, May 2022 - Present		Remote	
	<ul> <li>Part of organization's operations leadership team. Managed a C-level initiative to reduce or migrate 80% of production services to native AWS instances, reducing total cost across Devices by \$8M/mo. One of 3/25 organizations who achieved their goal. Managed additional employee to collect status updates and assist service owners on blocking issues.</li> <li>Manage geographically distributed eight person development team (college to Sr), two QAEs, and onboarded a secon engineering team to expand program. Additionally, managing a firmware team owning two devices with ~140K MAU Manage factory production issues and inventory maintenance in fulfillment centers. Work with product management, UX designers, product marketing, beta trials, and CVML algorithm teams.</li> <li>Managed a refactor of our firmware build system, our primary developer dissatisfaction. This refactor sped up build times more than 5x, supports single and multi-package workflows, provides first-class support for building across Linux/Mac/Windows development environments, and the ability to spin up new products on the existing architecture</li> <li>Led a team through a product cancellation, three reorgs, and three public layoffs. Retained my direct reports and led the team through a complete charter pivot that put us as the owner of one of three primary business objectives for the organization. This pivot required a complete technical shift from firmware and embedded engineering to</li> </ul>			
	<ul> <li>developing for Apple's WatchOS.</li> <li>Restarted and run our Manager Learning Series, a monthly lecture</li> <li>Rated &gt;90% in Team Effectiveness, Improvement and Innovation Satisfaction, and Inclusion by team over 6 month period. Over 1 y across variety of domains (including above).</li> </ul>	e series by and for the ~50 SE n, Manager Skills, Job Satisfac	DMs in our org. tion, Manager	
	Software Development Engineer, Amazon, July 2020 - May 2022		Remote	
	<ul> <li>De-facto tech lead of a former <u>Grand Challenges</u> project. Led sprint ceremonies, worked with project TPM, principal engineers, and directly with VP to establish planning timelines and goal milestones for an unreleased new technology healthcare device. My work led to the project receiving additional funding and a path to product development. Established on-call process that managed software, firmware, electrical engineering, IP engineering, lab support, and ML.</li> </ul>			
	• Implemented an end-to-end communication protocol for our prototype device to send raw sensor data collections over bluetooth through our Halo production application into a private data lake for ML model research. This work was a C level (Dave Limp) requirement to extend the program. Additionally, built firmware modules for dynamic adjustments and automatic attenuation for our hardware antennas.			
	<ul> <li>Asked to join organization's Operations "Bar Raiser" program, morg. Launched 1 ML model, 3 services, and 4 firmware features. A Simplified process and onboarded 4 new teams. Led Diversity, Eq.</li> <li>Part of launch team for our org's first product offering, the Halo</li> </ul>	ade up of senior and principa additionally trained a new mer juity, and Inclusion team for 6 Band. Implemented backend	mber of the program.	
	workout sessions in the app. Implemented content paywalling for <b>Software Engineer III</b> , Squarespace, July 2018 - July 2022	both 105 and Android apps.	New York, NY	
	<ul> <li>Primary backend developer on Point of Sale product. Launched o</li> </ul>	on time with one year of deve		
	technical partnership with our hardware provider, Square.	in ante white one year of deve	iopinicita o "nica	
	<ul> <li>Led a Frontend Testing Working Group containing ICs from acromulti-course curriculum taught to all new engineering hires at the frontend tests in our primary codebase. Advocate and internal speces 2120% increase in frontend tests across our codebase since working the specific sector.</li> </ul>	company. Personally wrote at eaker on how to run an engine ing group kicked off.	t peak >33% of all eering working group.	
	<ul> <li>Advocated and developed alerting and visualization patterns in team's domain. Owned adoption of SLOs</li> <li>for our services. 0 false alarms in the last 6 months with an average incident response time of ~10 minutes. Wrote and led Diversity and Inclusion trainings for internal Employee Resource Groups. Topics included Mentorship &amp; Sponsorship, Cultural Appropriation, Intersersectionality, and more.</li> </ul>			
	<ul> <li>Developed new engineering interviewing patterns and questions a Previous maintainer of one of our three onsite questions, includir</li> <li>Assisted with campus recruiting and recruited our largest subset of</li> </ul>	is part of an engineering inter ng calibration, training, and ac	ljustments.	

• Assisted with campus recruiting and recruited our largest subset of campus class from our primary target university.

## **Technologies:**

- Programming Languages: C/C++, Java/Kotlin, Javascript/Typescript, Python, C#, HTML/CSS, OCaml, and PHP.
- Development: React/Native, Spring, FreeRTOS, AWS, ElasticSearch, Kubernetes, Kafka, Appium, XCode