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| ✉ [roryohayes@gmail.com](mailto:roryohayes@gmail.com) | **Rory O. Hayes** *Software & Computer Engineer 2* | <https://roryhay.es>   [github.com/rorosaurus](https://github.com/rorosaurus)   [linkedin.com/in/roryhayes](https://www.linkedin.com/in/roryhayes/)  |

# **Education**

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| **Missouri University of Science and Technology** (Rolla, MO) | ***August 2009 – May 2013 (4 years)*** |
| **B.S. in Computer Science, B.S. in Computer Engineering,** Minor in Mathematics | |

# **Experience**

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| **Sabbatical (Self-Employed - Online Store)**  **Projects & Accomplishments** | ***Bellevue, WA***  ***December 2018 – December 2022 (4 years)*** |
| * Consulted for major LED fiber-optic whip company to advise/design new product architecture and PCB. * Designed an open-source PCB to drive professional HUB75 scan type LED panels with a $4 commodity microcontroller (ESP32), with accompanying software library for animations and Wi-Fi controls. * Prototyped cheap, long-range (LoRa) GPS/chat device to assist medical teams at large (30,000+) events. * Designed, tested, deployed, and maintained several redundant solar power grids (ranging from 200W-1.2kW) for repeated use in harsh (115°F), high-wind desert environments. * Designed and sold several PCBs to modify retro electronics to charge with USB-C, according to spec. * Designed, deployed, and maintained several new static websites for various customers (Jekyll). * Deep dive into Android .apk “patching”: modifying existing apps to provide extra functionality. * Reverse-engineered and documented several popular USB-PD trigger boards with unmarked ICs. * Designed several open-source LED art projects as well as immersive mobile Tensorflow AR art. | |
| **Microsoft Corporation (FTE)**  **Software Engineer 2 at Microsoft CRM (Dynamics 365)** | ***Redmond, WA***  ***July 2013 – December 2018 (5.5 years)*** |
| * Developed new mobile device testing infrastructure and automated test cases (built for Selenium).   + Built and maintained a physical/virtual device lab for automated checkout and test case execution. * Sole owner of testing several product areas, including all testing and validation for an entire box product. * Maintained several product codebases, including bringing multiple unique CRM client applications into compliance with new accessibility guidelines and GDPR within extreme time crunch. * Developed a system to validate customer’s customizations to our CRM software, ensuring future updates/upgrades complete successfully with no impact to functionality. | |
| **Software Engineer in Test at Microsoft CRM (Dynamics 365)** | |
| * Designed & executed custom solution for a time-sensitive, critical migration of massive test case database.   + Existing migration solutions did not work with our existing database or did not satisfy the project requirements for complex interdependent relationships and multi-select options.   + Over 35,000 test cases were successfully migrated on time, with all data intact.   + Partnered with all teams across our CRM product to verify their needs were met throughout the process, including adjustments to automation running/reporting/dashboards. * Orchestrated daily testing of our offshore vendor team, increasing test execution throughput to cover all supported client/OS combinations, as well as development of new automated test cases. * Built/maintained several shared critical environments needed by team to test different customer scenarios. | |

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| **Volunteering (Microsoft)** | **Volunteering** | **Internships** |

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| * Head Recruiter at University * Coordinator for Intern retention * Maker Garage (Drones) Chapter Lead * 2014 Hackathon project was successful and developed into full CRM product feature. * 2016 Hackathon project (AR) awarded by Senior Leadership and demoed to U.S. DoD. | * Volunteer AP CS Teacher at Issaquah High School (TEALS) * Volunteer Game Developer for local ACM Coding Competition * Life Member of KKΨ (Honorary Band Service Fraternity) * Volunteer First-responder and Stage Lead in Harm Reduction (local shows up to 30k patrons) * CPR, AED, and First Aid Certified | * Programming Internship at Electric Coop, working on Smart Meter dashboards + predictions. * Hired as part-time Developer to continue working during school. * Undergraduate Research Assistant, worked on a 3D slicer for a 6-axis robot arm which used a laser to perform deposition of powdered metals. |

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