

Michael Penhallegon

Seattle, WA 98144 / (425) 423-9426 / mike@hematite.tech

Summary:

Software developer and data analyst/engineer with a focus on intersection of health/biotechnology and software. Has a diverse skill-sets in technology, application development, creative problem-solving and data analytics to health research and advocacy. Has utilized mixtures of skill-sets to develop projects utilized to transition to a database to maintain contacts, analytically investigate health disparities and most recently, process and maintain data quality of research/clinical trial data.

- 7-years of experience with Python and advanced knowledge of R, Java and SQL
- Emerging health researcher, utilizing cross-disciplinary skills to analyze problems and implement solutions
- Developed strong skills in pipelining and data wrangling text before and through ETL (extract, transform and load)

Professional Experience:

Juno Therapeutics

Seattle, WA

Research Associate

August 2018-Present

- Designed, tested and implemented projects in Python and R to process and format clinical trial data pipelining to ingestion into a LabKey server and biostatistical analysis. Reduced time to upload new data by over 20%
- Developed and released internally 2 R Packages utilized to process and upload data to a data warehouse.
- Utilized SQL to aggregate and combine data; connect and correlate disparate datasets and maintain data quality. Allowing more holistic use of translational medicine research metrics to investigate clinical and research questions
- Collaborated with clinicians/researchers utilizing technology to deliver answers to research and clinical questions

Fred Hutchinson Cancer Research Center

Seattle, WA

Research Intern, HIV Vaccine Trial Network Core Lab

April 2018-June 2018

- Completed thorough literature review and prepared results for publication in an academic journal.
- Contributed to a qualitative research project investigating HIV/AIDS stigma among HIV+ and HIV- men
- Refactored and published an R package, to linearly interpolate Census-data to generate health metric values.

Summer Research Intern

June 2017-August 2017

- Developed a project in analyzing connections, using R, Python and Tableau, between home value and health disparities in African-American neighborhoods using public census and health data.
- Contributed to a research project to analyze improving retention of minorities in medical trials.

The Evergreen State College

Olympia, WA

Quasr Tutor

September 2017-June 2018

- Tutored mathematics up to differential calculus, discrete mathematics, programming and digital logic
- Learned and used equity-minded pedagogy to tutor and engage students in using quantitative skill sets

Outreach and Retention Advisor, TRiO Student Success

June 2016-June 2018

- Advised and mentored first-generation/low-income students in navigating college and achieving success.
- Assisted linking college administration to students through development of job descriptions, running candidate student forums and recruitment of students to college committees

Stonewall Youth, Olympia, WA

Olympia, WA

Programming Coordinator

October 2015-June 2016

- Developed programming for at-risk LGBTQ youth; Helped maintain drop-in hours for participants
- Developed backup plan; edited and maintained WordPress site including backup and software updates
- Utilized Python and R to clean and restore both participant and donor data. Normalized data from legacy systems.

Peninsula College

Office Assistant, Longhouse Diversity Services

Port Angeles, WA

February 2014-June 2014

- Coordinated event management for two large campus-wide events
- Maintained, updated and transitioned tribal contact database from Microsoft Excel to Access

Amazon.com

Customer Service Associate III—Kindle

Kennewick, WA

June 2009-November 2011

- Provided replacement and warranty service while resolving software and hardware problems.
- Provided thorough technical support for customers utilizing multiple different computer platforms
- Met and regularly exceeded metrics of quality for call times and customer service
- Filed feedback and bug reports, utilizing JIRA, and kept customers informed of updates as needed.
- Developed internal team tools using HTML/CSS and Javascript to streamline customer service workflows

Education:**The Evergreen State College**

Bachelor of Art, emphasis in Computer Science and Public Health Studies

September 2015-June 2018**Peninsula College**

Associate of Art, Direct Transfer Agreement/General Studies

January 2013-June-2015**Volunteer Experience:**

King-Snohomish-Island Counties Ryan White Grant Review Committee, Member, October 2018-December 2018

AIDS Memorial Pathway Project, Committee Volunteer, August 2018-Present

The Evergreen State College Provost Search Committee, Member, September 2016-January 2017

Nomenus, Active Member, June 2009-Present

Skills:

General: 65 wpm, interpersonal skills, customer service, and consensus decision-making. **Computing:** Microsoft Office (Word, Excel, PowerPoint, Access, Outlook), Tableau. Mac, Windows, and Linux desktop environments. **Programming and Software Development:** Python, R, git, Jira, Java, HTML/CSS, JQuery, PostgreSQL, MariaDB, test-driven development (TDD)

Professional Memberships:

Association for Computing Machinery 2014-present, Member

American Public Health Association, 2017-present, Student Member