Michael Penhallegon

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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 corelate 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 heath 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   **Port Angeles, WA**
Office Assistant, Longhouse Diversity Services   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   **Kennewick, WA**
Customer Service Associate III—Kindle   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   **September 2015-June 2018**
Bachelor of Art, emphasis in Computer Science and Public Health Studies

Volunteer Experience:

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

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

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