**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
* Developed strong skills in data pipelining and wrangling before and through ETL (extract, transform and load)
* Emerging health researcher, utilizing cross-disciplinary skills to analyze problems and implement solutions

# Professional Experience:

## Bristol-Myers Squibb Seattle, WA

Associate Data Scientist August 2018-Present

* Collaborated with translational science researchers and clinicians on utilizing technology to deliver answers to research questions in clinical trials
* Transitioned and promoted from Research Associate to Associate Data Scientist
* Designed, tested and implemented projects in Python, R and Scala to process, format and ingest clinical trial data into data warehouses and data stores, like Labkey and Hadoop
* 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

## 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

# Education:

## The Evergreen State College September 2015-June 2018

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

**Peninsula College Janurary 2013-June-2015**

Associate of Art, Direct Transfer Agreement/General 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, Java, Scala, git, Jira, HTML/CSS, JQuery, PostgreSQL, MariaDB, test-driven development (TDD)