

# 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:

### Celgene

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 correlate 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 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

## **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, Java, Scala, git, Jira, HTML/CSS, JQuery, PostgreSQL, MariaDB, test-driven development (TDD)

## **Professional Memberships**

American Public Health Association, 2017-present, Member