David R. Saeva

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TECHNICAL ABILITIES

Languages: Java ● R ● Python ● SQL ● Perl ● JS/HTML/CSS ● C++
Platforms: Linux ● Windows ● Git ● Eclipse ● PyDev
Skills: Data Analytics ● Object-Oriented Programming ● Technical Communication

RELEVANT EMPLOYMENT AND EXPERIENCE

Cubix Health Technologies, Baltimore, MD — *Developer*
NOVEMBER 2016 - MAY 2017

Python and **C++** development for a medical visualization technology startup.

Johns Hopkins University AAP, Baltimore, MD — *Graduate Student*
MAY 2016 - AUGUST 2017

Engaged in graduate coursework in computer science (bioinformatics). Completed several projects, including:

- **R:** statistical analyses of gene expression in sleep apnea patients using machine learning
- **Full-stack development with Python and HTML5/CSS3/Javascript:** bacterial gene search engine
- **Object-oriented programming in Java and Python:** sorting algorithms, data structures, trees, basic UIs

Maryland DHMH, Baltimore, MD — *Data Entry Operator*
MAY 2016 - NOVEMBER 2016

QA and manual entry of HIV patient records against state database. **Identified an existing workflow and developed a Java application to optimize it via automation:**

- 10% of monthly patient lab reports (~1500) are paper documents that must be entered by hand
- Parsed data from scanned reports using optical character recognition
- Automated entry of data into existing frontend with **Selenium**

Regularly **discussed project** requirements and progress **with non-technical supervisors**.

University of Maryland Baltimore, MD — *Graduate Research Assistant in Biochemistry*
JULY 2014 - OCTOBER 2015

Engaged in independent research and coordinated efforts with colleagues. **Developed a series of Perl scripts**:

- Cross-referenced data from cancer gene expression databases to find matching genes in lymphoma studies
- Identified matching genes containing sequences (strings) closely matching a sequence of interest
- Pushed data to and from an ad-hoc **SQL** database, using it to guide experiments in the wet laboratory

Regularly **discussed progress on projects, including lay summaries of code**, with supervisors and collaborators.

SUNY College at Brockport, NY — *Research Assistant*
JANUARY 2012 - JUNE 2014

Contributed to several published chemistry studies (goo.gl/P00fyM). **Leveraged Excel for analytics on hundreds of datasets drawn from 10 years of published data.** Presented results at regional and national conferences.

EDUCATION

JOHNS HOPKINS UNIVERSITY	● Baltimore, MD (*Aug '17*)	● Graduate coursework in Bioinformatics
UNIVERSITY OF MARYLAND	● Baltimore, MD (*Oct '15*)	● Graduate coursework in Biochemistry
SUNY COLLEGE AT BROCKPORT	● Brockport, NY (*May '14*)	● Bachelor of Science in Biochemistry
SUNY PURCHASE COLLEGE	● Purchase, NY (*May '10*)	● Bachelor of Music in Performance