Armand Halbert

armand.halbert@gmail.com | 512.736.8953

EDUCATION

UNIVERSITY OF MASSACHUSETTS
MS in Computer Science
May 2015 | Amherst, MA
Cum. GPA: 3.54

UNIVERSITY OF TEXAS AT DALLAS
BS in Computer Science
May 2013 | Richardson, TX
Cum. GPA: 3.77
Cum Laude
Collegium V Honors

LINKS

Website: www.ahalbert.com
Github://ahalbert
LinkedIn://armandhalbert

CERTIFICATIONS

Google Cloud Engineer
Google Cloud Professional Data Engineer

SKILLS

PROGRAMMING LANGUAGES
Fluent:
SQL • JavaScript • Python
• LaTeX • C/C++ • PHP
• Perl • Java • Shell Scripting
Familiar:
Haskell • LISP • Ruby • MIPS

TECHNOLOGIES
Linux • Apache Beam • Google BigQuery • Google Cloud Platform • Tableau • Docker • Pandas • Django • AWS • Spring Framework • jQuery • Node.js • Amazon Redshift • MySQL • Postgres • HTML

WORK EXPERIENCE

WAYFAIR Software Engineer
June 2022 – | Chicago, IL
Supported a Google BigQuery batch processing system for Wayfair traffic analytics (clickstream data). Led a team of three to port Spark data processing jobs to Google BigQuery, saving $3 million in cloud computing costs annually. Built a real-time version of clickstream data with Apache Beam, allowing business analysts to analyze Wayfair traffic in real time.

DATAKITCHEN Customer Success Engineer
October 2016 – May 2022 | Cambridge, MA
Developed custom data warehouse solutions for clients in the pharmaceutical industry in SQL and Python on Amazon Web Services. Worked directly with clients, gathered requirements, developed solutions and fielded support requests. Developed automation tools in Python for the Datakitchen platform, such as a Docker microservice for automating moving and processing large data files to a Data Lake. This tool saved a full time engineers' worth of work each week.

IBM Software Engineer
June 2015 – October 2016 | Littleton, MA
Developed and debugged REST API features for Rational Software's Jazz Foundation in Java and Node.js. Developed a tool to automatically generate test data in Java.

UNITED AUTO WORKERS LOCAL 2322 Software Contractor
August 2014 – August 2015 | Amherst, MA
Refactored a legacy PHP application managing union benefits to use unit tests, increase reliability and support mobile clients. Developed front-end features for the web application in Javascript.

NATIONAL INSTITUTES OF HEALTH Researcher
May 2014 – Aug 2014 | Bethesda, MD
Developed statistical analysis software in Perl to compare the human and primate genomes.

RESEARCH AND PROJECTS

TRANSITMATTERS September 2019 – March 2022
Researched, co-wrote and edited a book on Mobility Hubs for a Boston non-profit. Led a team of volunteer researchers and graphic designers to design and produce the book.

UNIVERSITY OF MASSACHUSETTS PROGRAMMING LANGUAGES AND SYSTEMS LABORATORY September 2013 – January 2015
Worked with Dr. Yuriy Brun to develop a web application frontend for Perfume, a tool which visualizes log files. Published.

UT DALLAS SOFTWARE ENGINEERING LABORATORY May 2012 – May 2013
Received a National Science Foundation grant to research Software Safety in the aerospace and defense industries under Dr. Eric Wong . Research evolved into an undergraduate thesis.