

Philippe M. Dolimier

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EDUCATION

University of Maryland, College Park, MD

Graduated Spring 2019

Relevant Courses: Algorithms, Data Science, Database Systems, Data Analytics, Discrete Mathematics & Probability, Computer and Network Security, Systems Programming, Data Modeling

Major/Minor: Computer Science/Data Analytics

GPA: 3.52

WORK EXPERIENCE

Northrop Grumman, Missions Systems (Associate Software Engineer)

2017—Present

- **2019:** Supporting workstation development project via Open Source application modification, creating kernel extensions and implementing various security plug-ins.
- **2018:** Implemented simulation of EO/IR sensor data processing device receiving data from SIGINT and RADAR system in cross-cueing mission. Created visualization of sensor movement, vision, and targeting. Implemented DDS interface between each sensor & central analytical tool. Researched and applied text localization algorithm for unstructured scenes from aerial view.
- **2017:** Created workflow for Management to streamline redeployment and training processes. Created client-side in basic HTML, CSS, and JavaScript. Used Ajax Requests and Server-side PHP to mass store data.

Energy Efficient Technologies (Intern), Annapolis, MD

October 2014—January 2015

- Created/Manipulated excel spreadsheets to find discrepancies and showcase HVAC inefficiencies

LEADERSHIP EXPERIENCE and CAMPUS INVOLVEMENT

- University Teaching Assistant – BMGT431: Data Analytics
- University Tutor – Linear Statistical Models in Business/Business Data Analytics
- Alternative Spring Break Trip Leader – Habitat for Humanity coordinator, built home in Sandhills, NC.
- Delta Sigma Phi – Vice President of New Member Development
- Poker Club – General Member
- Fluent in French – Native Speaker

RELEVANT TECHNICAL PROJECTS (projects available to view at www.phildolimier.me)

AirBnB Prediction Contest – Data Science

Fall 2018

- Semester-long project with the goal of predicting which properties from a hidden data set have a high booking rate (booked > 80% of the year). Used Training data set with 40,000 entities and 40 initial variables. Our team had the highest prediction accuracy of any group at 85.53%, a 10.43% increase from the found 75% baseline.
- Focused mainly on Variable Selection, ML, KNN, and Ensemble Methods.

Secure Banking System – Network & Cyber Security

Fall 2018

- Two-part project involving the creation of a secure banking system and infiltration/exploitation of another. The system included the bank & ATM simulations, and routing tool between them. Implemented Diffie-Hellman Key exchange, buffer overflow prevention measures, white and blacklisting user input, & other security means.

Fad Name Mystique – Data Science

Spring 2018

- Full-Length Analysis on the distribution of unique and popular male vs. female names from 1910-2016 in the U.S. to answer questions about name fads and trends vs. gender. (EDA, Statistical Analysis, and T-testing)
- Rmarkdown file follows Data Curation, Exploratory Data Analysis, & Hypothesis Testing phases.

Plus Interest – Web Development (Full Stack)

Spring 2018

- Created peer-to-peer lending platform. Used MongoDB, Node.js, and Handlebars front-end templating. Future iterations include giving people the opportunity to lend to individuals in developing countries as a charity service.

TECHNICAL SKILLS

Languages: Java, C, Python, R, SQL, Swift, OCaml/Lisp

Web Design: HTML5/Handlebars, CSS/Bootstrap, JS/JQuery/Node.js, PHP

Tools/Software: Eclipse, Git, Linux/Unix, Docker, PostgreSQL/MySQL/MongoDB