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EDUCATION:

Worcester Polytechnic Institute (WPI), Worcester, MA

Master of Science: Financial Mathematics and Data Science, GPA: 3.61/4.0, Dec 2017 and May 2019

Bachelors of Science: Actuarial Mathematics and Computer Science, GPA: 3.65/4.0, May 2016, High Distinction

CERTIFICATIONS: Society of Actuaries (SOA) Exam P/1, Exam FM/2

EXPERIENCE:

Actuarial Intern, Sun Life Financial, Wellesley, MA

06/2017 – 08/2017

- Performed actuarial valuations with North American Variable Annuities (NAVA) US Production team
- Updated the experience studies for annual lapse for wealth management business and expenses for reinsurance business and designed a new death claim lag study, using MS Excel and MS Access
- Researched the actuarial life insurance industry standards of practice and protocols
- Presented to Actuarial Managers and other key stakeholders highlighting project results and experience from internship
- Focused on professional development by networking with new colleagues, having informational interviews, and meeting with senior leaders such as Dan Fishbein, President, SLF US

ITS Helpdesk Specialist, WPI, Worcester, MA

09/2012 – 05/2018

- Provided customer service and information technology support
- Resolved front-desk and call center support requests concerning technical issues
- Led and trained other student workers via one-on-ones

RELEVANT PROJECTS:

Independent Study, Evaluating Early Stage FinTech Companies via Big Data Analytical Tools,

08/2017 – 12/2017

WPI, Cambridge, MA

- Strategized with three graduate students and built an implementation plan for big data analytical projects to be carried by a 6-member undergraduate project team for sponsor companies Vestigo Ventures and Cogo Labs
- Catalogued FinTech startup investment deals received by VC firm Vestigo Ventures using proprietary SQL database
- Developed a probabilistic algorithmic prediction model for Cogo Labs on their ~3.0 petabytes consumer informational database

Major Qualifying Project (MQP), Development of an Operational Process for Continuous Delivery,

10/2015 – 12/2015

WPI, Wall Street project center

- Researched continuous delivery tools for DevOps division of Barclays Investment Bank
- Helped develop an automated job creation strategy using Jenkins in coordination with Promoted Builds plugin for Prime Financing team
- Utilized pivot tables/charts to present a report of software builds and promotions

Software Engineering Project, WPI

10/2014 – 12/2014

- Worked in a team of 12 to develop a Kanban-style project task manager
- Programmed using Agile and test-driven development with Java and Swing
- Used Git and Github for version control

Interactive Qualifying Project (IQP), Analysis of Consumer Energy Behavior in the Arboretum,

05/2014 – 06/2014

Worcester, England

- Completed an intensive team project abroad in creating a baseline energy consumption profile of the Arboretum neighborhood in Worcester through door-to-door surveying and canvassing. The team presented findings to the Environmental Sustainability office of the University of Worcester and to The Lord Faulkner of Worcester.

SKILLS:

Programming languages: Python, R, JavaScript, Git, SQL, Java, C, C++

Software: Microsoft Word, Powerpoint, Excel, Access, Outlook, Bloomberg Terminal, RStudio, Tableau, Adobe Creative Cloud

Languages: Japanese, French

LEADERSHIP EXPERIENCE:

President, Japanese Culture Club, WPI

08/2015 – 05/2016

Academic Chair, Sigma Pi fraternity – Gamma Iota chapter, WPI

10/2014 – 10/2015