

Christopher Coffee
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SUMMARY

- Experience in actuarial science (insurance), banking, and bioinformatics
- Expert-level knowledge of SQL and VBA
- Fluent in Python and SAS
- Familiar with Unix and R

EDUCATION

University of Alabama at Birmingham (Birmingham, AL)

Master of Science in Data Science (MSDS)

- GPA: 3.6
- Relevant Coursework: Discrete Mathematics (completed), Object-Oriented Programming (completed), Cloud Computing (completed), Algorithms and Data Structures (enrolled), Foundations of Data Science (enrolled), Computer Vision (enrolled)

Boston University (Boston, MA)

Triple Major in Economics, History, and Mathematics, September 2011

- GPA: 3.4
- Honors: Recipient of full-tuition Trustee Scholarship, Boston University's most prestigious academic award; National Merit Finalist
- Relevant Coursework: Probability, Stochastic Processes, Mathematical Statistics, Economics of Information, Intro to Computer Science 1-2

CREDENTIALS

- Actuarial Exam Progress: Exam P Probability, Exam FM Financial Mathematics, Exam MFE Models for Financial Economics (options pricing), Enterprise Risk Management Module
- Completed CSMM.102x: Machine Learning, a Python-based course offered by ColumbiaX (via edX)
- Currently Enrolled in Introduction to Deep Learning, a Python-based course offered by Russia's National Research University Higher School of Economics (via Coursera)

WORK EXPERIENCE

UAB Medicine Department of Pathology Genomics Lab (Birmingham, AL)

Lab Assistant, July 2019 – present

- Cataloged gene expression data resources in order to facilitate the identification of a good source of human gene expression identifiers
- Used R to validate mapping of UniProt gene expression identifiers to Genotype-Tissue Expression (GTEx) identifiers
- Developed R package that translates current and prior human gene expression identifiers to various synonyms using existing Bioconductor package as well as raw data from HUGO Gene Nomenclature Committee
- Wrote Unix script that recursively searches PubMed and Public Library of Science for articles cited by other articles, starting with a given article and filtering based on keywords, in order to identify the article most frequently cited by other articles.

Regions Financial Corporation (Birmingham, AL)

Operations Analyst, December 2017 – December 2018

- Produced, validated and automated processes related to the consumer bank's staffing model covering over 9,000 branch associates
- Responsible for monthly checking production reports, independently catching and investigating discrepancies as they emerged and updating reports' line items as new products rolled out
- Assigned ownership of transactions data, including providing detailed analysis to different parties inside

and outside the bank

- Using Excel arrays, mathematically defined, streamlined and created a visually appealing template for guiding managerial decision-making pertaining to receiving branches' staffing targets post-consolidation
- Facilitated collaboration across the bank by tracking, updating, summarizing, reformatting, validating, and providing VBA functionality to assist with analyzing the results of an initial operating hours study, resulting in recently announced companywide changes affecting over 1,400 branches' 2019 operating hours
- With no prior knowledge of SAS, worked with Model Risk Model Validation to build a schedulable SAS macro facility-based process that runs queries, exports the results to an SFTP, runs a validation query and sends a validation email

Protective Life Corporation (Birmingham, AL)

Actuarial Assistant, November 2011 – July 2016

- Provided valuation, projections, and experience study production, reporting and validation support for Term and Whole Life liabilities
- Through batch processing, and across several blocks of existing and acquired lines of business (each with its own disjoint series of steps), combined and automated existing projection procedures into a single, fully productionalized process, significantly increasing efficiency through a vast reduction in manual user inputs and tasks, as well as greatly increasing confidence in results with carefully considered guardrails against user error
- Formalized and automated quarterly process for precisely and transparently calculating miscellaneous reserves with Excel formulas in an accessible format with crosschecks
- Enhanced data reconciliation processes for valuation and experience studies through complex SQL scripts
- Vetted third-party software and provided feedback to vendors through basic actuarial computations (e.g. running a single policy and verifying the output in Excel)

Christian & Denaburg, PC (Birmingham, AL)

Intern, May – August 2010

- Provided research in tax law and Congressional legislation for the purpose of advising clients regarding the viability and implementation of various tax strategies
- Gained exposure to models used to forecast the expected rate of return of low-income housing tax credit (LIHTC) projects and the ways in which this rate is leveraged against developer fees

JPMorgan Chase (London, UK)

Intern, October – December 2009

- Worked with the team responsible for onboarding clients for etrading at JPMorgan London
- Responsibilities included reconciling client lists, comparing trade inquiries, and working with salespeople in managing their clients
- Increased efficiency by coordinating a system for bulk database uploads of client information via Excel, freeing team members from having to individually upload clients

ACTIVITIES & INTERESTS

- Placed in the top 100 in Quantopian's Open Contests by learning Python to write stock trading algorithms
- Wrote musical parodies as a comedy writer for Positively Funny, Inc.
- Volunteered at Sawyerville Day Camp for underprivileged youth in Alabama