Junwon Choi

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EDUCATION

The Pennsylvania State University — *University Park, PA*
B.S. in Information Sciences and Technology, Integration and Application Option — Class of 2020
B.S. in Risk Management, Enterprise Risk Management Option — GPA: 3.68/4.00

RELEVANT EXPERIENCE

CEF Solutions Inc. — *Hackensack, NJ*
Program Lead — February 2021 - August 2021
- Performed quantitative and qualitative analysis using Microsoft Excel to audit and manage operation deficiencies and risks
- Developed RPA that fetches, cleanses, and uploads partner's data using Microsoft Graph API and Python RPA package
- Managed client relationships by identifying risks and action plans to recommend near-term and long-term solutions
- Identified, analyzed, and executed new processes to efficiently enhance the operation and core KPIs by 19%

Blueporte Inc. — *Ridgefield, NJ*
Software Engineer Intern — October 2020 - January 2021
- Automated data fetching, manipulating, and cleaning by developing Python scripts which reduced data entry time by ~95%
- Enhanced company's business process by designing and implementing a new database management system
- Designed and developed a Python GUI to enhance the user experience when using the invoice management system

Omega Notes — *State College, PA*
Data Science Intern — May 2019 - August 2019
- Conducted market and competitor research on higher education learning platforms using SWOT analysis to determine the market value of Omega Notes
- Analyzed National Center for Education Statistics datasets to identify variables that lead to the success of college institutions
- Utilized linear regression algorithm to identify schools that are at risk of closing as a customer which increased 10% revenue
- Implemented logistic regression algorithm to predict students' success using the Omega Notes platform with ~85% accuracy

Penn State College of Information Sciences and Technology — *University Park, PA*
Learning Assistant - Introduction to Information, People, and Technology (IST 110) — August 2019 - August 2020
- Coached students on how the IT industry impacts people, society, and technology using metacognitive learning strategies
- Provided formative feedbacks of tests and projects to students during office hours for the class of 34 students

PERSONAL PROJECT

Baby Bear BB E-commerce App - junchoi0408.github.com/baby-bear-bb-ecommerce-app — Summer 2021
- Prototyped a full-stack E-commerce application with React JS, Commerce JS, Stripe, and Firebase
- Implemented caching using React Query to reduce API calls to Firestore by ~98% resulting in ~20% lower cost
- Enhanced the app security by implementing Firestore security rules to limit users to read and write on the database

Investment Portfolio Optimizer — Summer 2020
- Developed Python script using Yahoo Finance API, Matplotlib, NumPy to analyze and visualize the investment portfolio
- Generated time series graph to benchmark the monthly performance of the portfolio against the S&P 500
- Utilized momentum strategy and Sharpe ratio to develop optimal weights of the securities portfolio to generate a ~28% return

Project Automation - github.com/junchoi0408/automate_creating_projects — Summer 2019
- Developed a shell command using Bash and Python scripts to create and upload new projects to GitHub

SUPPLEMENTAL INFORMATION

Programming Languages: Python, JavaScript, Java, SQL
Technologies: Pandas, Matplotlib, Scikit-learn, Node.js, React, Express.js, Firebase, Bash, Git, MongoDB, Next.js
Languages: Fluent in Korean and English