John Pugliesi

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

BS in Computer Science/Business Administration
May 2017 | Los Angeles, CA
GPA: 3.92 / 4.0

Minor in Music Recording
Viterbi School of Engineering
Dean's List (All Semesters)

COURSEWORK

Algorithms
Data Structures
Object-Oriented Design
Probability and Statistics
Discrete Mathematics
Applied Linear Algebra
Operations Management
Marketing Fundamentals
Business Finance
Microeconomics for Business
Macroeconomics for Business

SKILLS

PROGRAMMING

Over 5000 lines:
C++ · Java
python · Javascript

Over 1000 lines:
R · ruby (and Rails)

Familiar:
regex · LaTeX

DATABASES

SQL · DynamoDB

SERVER TECHNOLOGIES

Docker · AWS

SOFTWARE DEVELOPMENT

Agile · SCRUM · gitflow · JIRA

AUTOMATED BUILD

Jenkins · Continuous Deployment

LINKS

Github:// jpugliesi
LinkedIn:// jpugliesi

EXPERIENCE

NIKE, INC.

Application Engineer Intern
June 2016 - August 2016 | Beaverton, OR
- Developed Nike's global demand forecasting application - vanilla.js front-end app, node.js and Java/Jersey microservices
- Completed a long-term project developing a demand forecast scheduling microservice - Java/Spring REST API, DynamoDB datastore, containerized with Docker
- Wrote unit and integration tests for front- and back-end applications in javascript (Mocha, Chai, Sinon) and Java (JUnit)
- Collaboratively created a personalized, proximity-based, in-store consumer experience that won the Nike Digital Intern Hackathon

ALBOURNE PARTNERS

Dynamic Beta Summer Analyst
June 2015 – August 2015 | San Francisco, CA
- Implemented investable, quantitative index models using python
- Performed data analysis and backtesting on models to assess strategy risk and robustness
- Contributed quantitative insight to advisory reports for over 40 clients

USC INVESTMENT OFFICE

Investment Analyst Intern
August 2014 – Present | Los Angeles, CA
- Performed a weekly asset allocation, estimating the $4.7 Billion University of Southern California Endowment portfolio's month-to-date performance
- Developed a now-adopted private equity cash flow forecasting model based on investment multiples
- Wrote Excel VBA macros to expedite numerous analytical tasks

LEADERSHIP & INVOLVEMENT

BRAIN BODY DYNAMICS LAB

Research Intern - USC Viterbi School of Engineering
May 2016 - Present
- Led a team of 12 research interns
- Co-developed a robotic learning algorithm to control a human cadaveric hand by its muscles
- Designed a python REST API to control, and expose output data from, a robotic hand system

USC HYPERLOOP

Software Team - SpaceX Hyperloop Pod Competition
September 2015 – Present
- Designed and implemented software architecture for a high-speed ground transportation system
- Develop critical flight control tasks in C/C++ for the National Instruments Real-Time Linux OS

CLARION LABS

Co-Founder, Pro-bono Consultant at USC Department of Public Safety (DPS)
March 2015 – May 2016
- Provide USC's DPS with crime statistics and reporting methods, while promoting campus awareness of local crime