

# 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

### AUTOMATED BUILD

Jenkins · Continuous Delivery

### SOFTWARE DEVELOPMENT

Agile · SCRUM · gitflow · JIRA

## 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 application, node.js and Java+Jersey backend microservices
- Completed a solo project constructing 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

### LOS ANGELES TECHNICAL CONSULTING HUB

Chief Engineering Director

September 2015 - Present

- Managed pro-bono technical consulting projects with local businesses
- Coordinated philanthropic and educational events to promote interest in computer science among local youth

### USC HYPERLOOP

Software Team - SpaceX Hyperloop Pod Competition

September 2015 - Present

- Designed software architecture for a high-speed transportation system
- Implemented critical flight control tasks in C/C++ for the National Instruments Real-Time Linux OS