

# John Bucknam

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## EDUCATION

### ROWAN UNIVERSITY

#### MS IN COMPUTER SCIENCE

Expected June 2017 | Glassboro, NJ

#### BS IN COMPUTER SCIENCE

Expected June 2017 | Glassboro, NJ

Cum. GPA: 3.8

Dean's List (All Semesters)

### ATLANTIC CAPE COMMUNITY COLLEGE

#### AAS IN COMPUTER PROGRAMMING

Grad. Dec 2013 | Mays Landing, NJ

Cum. GPA: 3.97

## LINKS

GitHub: [johnsbuck](#)

LinkedIn: [jbucknam](#)

## COURSEWORK

### GRADUATE

Advanced Theory of Computing

Concepts in Artificial Intelligence

Network Security

Topics in Computer Architecture

### UNDERGRADUATE

Programming Languages

Operating Systems

## SKILLS

### PROGRAMMING

Exceptional:

Java • JavaScript • Python • C

C++ • C# • Assembly • Shell

SQL • NoSQL • Lua • HTML • CSS

Familiar:

PHP • AS3 • iOS • Android

Scheme/Lisp • Ada • Prolog • CUDA

### MISC SKILLS

Web Development:

Node.js • ExpressJS • AngularJS • JQuery

Socket.IO • Django • MongoDB

AI/Machine Learning

Neural Networks • Genetic Algorithms

SciPy • NumPy • Torch7

Development

Git • Unix • Emacs • Vim • Slurm

cURL • Bash • Windows CMD

## EXPERIENCE

### FEDERAL AVIATION ADMINISTRATION | COMPUTER SCI INTERN

June 2016 – Current | Glassboro, NJ

Software Build Support, AJM-2411. I have been educated on STARS (Standard Terminal Automation Replacement System) which is used for air traffic control for every airport in the United States as well as how to manage their other systems such as their keyboard systems on the TCW or Controller Terminals. I have worked with a team of 3 other interns on several different tasks such as software development, troubleshooting system components, and directing tests & simulations of air traffic.

### PERKA | SOFTWARE ENGINEERING INTERN

May 2015 – Jan 2016 | Glassboro, NJ

Perka is a company focused on customer reward programs for local merchants that are rated as one of the Top 10 Most Innovated Companies in Local and were bought by First Data, who handles 45% of all US credit and debit transactions.

In this internship, I had multiple responsibilities, such as developing JavaScript for front-end and back-end use, implementing new designs and details, as well as improving CSS/HTML pages and Java being used for our servers. I also used different tools for development such as Git, Gerrit, and Jira.

## RESEARCH

### ROWAN UNIVERSITY | LEAD RESEARCHER

January 2016 – Current | Glassboro, NJ

Under the guidance of Dr. Ganesh Baliga, our team researched into Convolutional Neural Networks focusing on the classification of images. In my position as team leader, and endorsed by the NASA Consortium Grant, I was able to guide our team of undergraduates through different tasks such as working with our CentOS cluster with Torch7 and NVIDIA Tesla GPUs and researching into the details of specific network layers, filters, normalization methods, and more.

## AWARDS

2016	Outstanding Senior (CS)	Rowan University College of Sci. & Math
2016	Finalist	HackPrinceton
2014	Best Overall App.	Code Day Philadelphia

## ORGANIZATIONS

Member	2016	Upsilon Pi Epsilon Computer Science Honor Society
Member	2015 - Present	Rowan University IEEE Student Chapter
Member	2014	Association for Computing Machinery (ACM)
Member	2014 - Present	ACM Programming Contest Team, Rowan Chapter
President	2014-2016	Rowan University ACM Student Chapter
Member	2014-Present	Rowan University ACM Student Chapter
Public Rel	2014	Rowan University ACM Student Chapter

## VOLUNTEERING

Manager	Apr 2016	Rowan University Programming Contest
Volunteer	Apr 2015	Glassboro Library Code and Cookies
Developer	Oct 2015 - Mar 2016	ProfHacks
Volunteer	Nov 2015	FIRST Lego Robot League
Volunteer	Mar 2014 & 2015	Back to the Boro

References Available on Request