John Bucknam

http://www.jbucknam.com
jbuck594@gmail.com | 609-364-8365

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

- Running simulations for controller modes that are planned for use in airports.
- Troubleshooting various issues with software, hardware, and the entire STARS system.
- Our team was praised for our work, going as far as to manage live testing and creating software for developers and technicians.

PERKA | Software Engineering Intern

May 2015 – Jan 2016 | Glassboro, NJ

- Developed on both their front-end Javascript/CSS, such as creating unit tests in Jasime, and their back-end Java servers.
- Developed new applications and libraries with small team to be implemented in production with a small team using various applications such as Gerrit & Jira.
- Fixed numerous bugs with various causes in multiple languages.

PUBLICATIONS & RESEARCH

PHASE & RULE OF FLIGHT CALCULATOR | Author

Sept 2015 - June 2016 | Glassboro, NJ

- Developed a basic algorithm for the Federal Aviation Administration to compute the phase & rule of flight for a given flight path.
- Worked with large amounts of raw data that which required analysis & cleaning.
- Published in the International Conference on Research in Air Transportation (ICRAT 2016).

ROWAN UNIVERSITY | Lead Researcher

May 2016 - June 2016 | Glassboro, NJ

- Researched & improved different neural network training techniques and models while leading & supervising my team.
- Part of the NASA Consortium Grant under the Rowan Summer Undergraduate Research Program (SURP).
- Working within a CentOS cluster environment using our NVIDIA Tesla GPUs, Slurm, and Torch7.

AWARDS

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

ORGANIZATIONS

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

VOLUNTEERING

Developer	Oct 2015 - Present	ProfHacks
Manager	Apr 2016	Rowan University Programming Contest
Volunteer	Apr 2015	Glassboro Library Code and Cookies
Volunteer	Nov 2015	FIRST Lego Robot League

References Available on Request