Alexander Fulton Sung

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OBJECTIVE

In my final semester of undergrad, I am seeking an internship or full-time position to develop my skills in creating great application software. I strongly believe in products that are versatile and robust, which ultimately begin with careful architecture and clean code. As a software developer and lifelong learner, I am committed to maintaining familiarity with the latest technologies and best practices.

EDUCATION

University — Virginia Polytechnic Institute and State University

Pursuing — Bachelor of Science in Computer Science

Expected Graduation Date — May 2018

TECHNICAL SKILLS

Languages

Programming —
C++, Java

Scripting —
Python, JavaScript, bash, MATLAB

Markup —
HTML, CSS, LaTeX

API/Frameworks —
Android, OpenGL

Software

Operating Systems —
Windows (10, 8.1, 7), Ubuntu (16.04, Server)

Work Flow —
Unix Command Line, Git, Vim, Make

Platforms —
Amazon Web Services, Wordpress

Multimedia —
Blender (3D modeling), Adobe Photoshop

WORK EXPERIENCE

NREIP ASEE Internship   Washington DC
Research Intern   *May 2016 - August 2016*

- Worked in Applied Research for Artificial Intelligence department of the Naval Research Laboratory
- Explored methods for incorporating probabilistic graphical models (PGMs) with convoluted neural networks in order to increase accuracy in vision detection problems
- Concluded using PGMs oversaturate weights in convoluted neural networks, rendering them useless

System Software Research Group   Blacksburg, VA
Research Assistant   *September 2015 - May 2016*

- Assisted Virginia Tech research group with development of Popcorn Linux, an operating system designed for Instruction Set Architecture heterogeneous hardware, multi-core architectures, and optimizing scalability
- Performed benchmark setup, data harvesting, and presented work at conferences

Multi-Camera System for 3D Capture of Bat Flight   Blacksburg, VA
Consultant   *September 2015 - December 2015*

- Helped with Virgina Tech PhD student's dissertation project involving manipulation of 40 GoPro cameras with microcontrollers to capture and analyze path and wing-shape of a bat during flight
- Discussed camera control systems, synchronization, image processing, and data harvesting

UCLA Neuroscience
Lab Assistant

Los Angeles, California
July 2014 - August 2014

- Assisted in Neuroscience department of University of California, Los Angeles
- Helped in a study linking sex genes to the severity of the effects of multiple sclerosis
- Utilized various lab devices and chemicals to prepare, stain, and analyze brain tissue samples of mice

Factory Five
Shop Assistant

Shanghai, China
May 2014 - July 2014

- Worked at Factory Five, a bicycle designing and distributing company
- Received orders from customers and assembled bicycles according to specification

Fairfax County Public Schools
IT Intern

Chantilly, VA
June 2013 - August 2013

- Internship assisting the technology specialist of Chantilly High School
- Performed troubleshooting and repairs for faculty and staff
- Managed Active Directory, inventory, re-imaging and computer lab setups

PRESENTATIONS

- KairosVM: Deterministic Introspection for Real-time Virtual Machine Hierarchical Scheduling
  - Naval Engineering Consortium Annual Meeting – April, 2016

CURRENT INTERESTS

- Virtual Reality
- Game Engine Development
- The MEAN Stack
- 3D Modeling & Sculpting
- Android Development
- Amazon Web Services