



Nathan Spencer

SOFTWARE DEVELOPER

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WORK HISTORY **Software Developer** *(May 2016 - Present)*
IstoVisio, Inc.

- Built hardware-agnostic VR tools and user interfaces using OpenGL, C++
- Developed software product which raised substantial series A investment funding
- Collaborated on development tasks monitored via Redmine project management software
- Wrote readable, maintainable code evaluated through peer reviews of pull requests
- Responsible for full project stack including C++ VR app, Python backend, and JS web app

Undergraduate Research Assistant *(May 2015 - July 2015)*
West Virginia University Computer Vision Group

- Researched and applied machine learning techniques to classify images of food
- Trained classifiers using deep learning technologies VLFat and Caffe
- Contributed a highly competitive model tested on 750k images from 101 classes
- Presented findings at West Virginia University Undergraduate Research Symposium

Student Research Assistant *(June 2012 - Aug. 2012)*
West Virginia University Ultrafast Nanophotonics Group

- Designed and constructed optics setup to probe materials for optical properties
- Wrote MATLAB scripts to process, analyze, and visualize resulting data
- Participated and presented project progress in weekly research group meetings

TECHNICAL SKILLS

- o C++11/14
- o Team Communication
- o OpenGL & GLSL
- o API Documentation
- o Git & Github
- o User Interfaces
- o Web Scraping
- o Continuous Integration
- o Python 2.7/3.5
- o API Design
- o Image Processing
- o L^AT_EX

EDUCATION **B.S. Computer Science, Computer Engineering** *(Aug. 2014 - May 2018)*
West Virginia University, Morgantown, WV
Overall GPA 3.706 / Major GPA 3.698

RELEVANT PROJECTS **Open-Source Autonomous Drone System** *(Oct. 2017 - May 2018)*
West Virginia University Department of CSEE

- Worked with small team to develop autonomous flight system for quadcopters
- Built custom Android user interfaces using Java, Android SDK
- Configured automated build process for application and Javadoc documentation
- Contributed to design of backend for handling user accounts and relationships

Bioinformatics Web Scraper *(Sep. 2016 - Oct. 2016)*
West Virginia University Department of Biology

- Built custom bioinformatics scraper using Python modules BeautifulSoup, Requests
- Scraped 7k+ entries of data on invertebrate vectors of human pathogens
- Acknowledged in research published in *Genome Biology and Evolution*