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LANGUAGES —

R • HTML/CSS • JS • Obi-C

SOFTWARE TOOLS -

AWS • Azure • OpenShift • Git Apache Spark • ElasticSearch TensorFlow • Scikit-learn OpenCV • SQL/NoSQL Docker Truffle/testrpc

Python/JS web-frameworks

EXPERTISE -

PaaS • Signal Processing Machine Learning • Blockchain Natural Language Processing Control Systems • Circuit Design • Image Processing Embedded Systems Web/Mobile Dev

SOFT SKILLS =

Agile Methodology • Scrum Tools (JIRA, Axosoft) • Slack Grant Writing • Lean Startups **Business Model Creation**

RELEVANT COURSES -

Data Structures & Algorithms Artificial Intelligence Computer Vision • Systems Programming • Discrete Math **Programming Lanuage Concepts** Computer Org & Design

OTHER STUFF -

Music (Clarinet, Guitar, Production) • NYSE Trading ICO Investing • Club Tennis Hackathons • Barista-ing Dorm-room Horticulture

EDUCATION —

Penn State University Class of 2018: B.S. Computer Science Major GPA: (3.51/4.00)

PROFESSIONAL EXPERIENCE

Musical Minds: Founder, CEO

Nov 2015 - Now

- Directed 20 employees in the creation of a music-for-wellness recommendation engine powered by proprietary brainwave-sensing headphones
- Developed a Python REST API using AWS ElasticBeanstalk, AWS Cognito, Sanic, DynamoDB, and Apache Spark for collaborative filtering-based music recommendations
- Designed EEG biopotential amplifiers using Multisim and developed a DWT/SVM mental state classifier using C++/Tensorflow embedded on a TI-CC430 MCU
- Leveraged music streaming APIs and SDKs for in-app music playback on iOS and Android
- Garnered \$21,000 in non-equity financing through several grants, competitions, and awards

Microsoft: Student Partner to Penn State

Aug 2015 - Now

- Organized 13 tech workshops on MS developer tools for college students
- o Mastered tools including Azure, MS Cognitive Services, Windows IoT toolkits, etc
- Volunteered at public schools through "Hour of Code" to teach young students how to code

Optum: Software Development Intern

May - Aug 2017

- Developed a natural language understanding API and integrated it with complex internal business tools to simplify navigation using Flask, RASA, SPARQL, Docker, and ElasticSearch
- Built an Angular JS UI for centralization of UnitedHealth patient information between doctors
- Collaborated on Amazon Alexa skills to enhance assisted living and memory care units

Progeny Systems: Software Development Intern

May - Aug 2015

- Created Selenium web-scrapers in Python to collect Facebook images for CNN training
- Deployed concurrent scraper images to AWS EC2 instances to acquire 3,000,000+ images
- Designed GUI in Java to show facial similarities and modify training data, visualized using t-SNE

PROJECTS AND CONSULTING

Collanote (CLN): Blockchain Engineer

Aug 2017 - Now

- Wrote smart contracts with Solidity/EVM for document storage on the Ethereum blockchain
- Collaborated on white paper and marketing strategies for Initial Coin Offering in January

Charity Labs: Product Development Consultant

Jun 2017 - Now

July 2016 - Now

April 2017 Dec 2016

Oct 2016

Aug 2016

June 2016

Nov 2015

Nov 2015

- Built a web-app for charity-specific, 50/50 auctions using Django, Stripe, Postgres, and Heroku
- Raised over \$25,000 for the Against Malaria Foundation during beta tests

Lunar Lion: Guidance, Navigation, and Controls Lead Engineer

Apr 2015 - Jan 2016

- Directed 35 students in the development of five software/hardware subsystems including flight software, ground controls, modelling and controls, systems testing, and visual guidance
- Interfaced with craft sensors using C/C++ embedded on Arduino and RTD controllers
- Prototyped an Arduino and C#/WPF Ground Control Station for command transmissions
- Implemented a monocular surface reconstruction algorithm leveraging parallax motion of lunar surface features and spline interpolation for landing sequence adjustment using C++/OpenCV

AWARDS AND ACHIEVEMENTS

Slavin Family Foundation Fellow WPSU's 'The Investment' Finalist Launchbox Cohort Graduate Inc. U Video Pitch Competition Winner (\$2500) PennTap Learning Factory Grant Recipient (\$3500) Erickson Grant and Whitman Endowment Recipient (\$5000) 1st Place at HackPSU Penn State Engaged Scholarship Award

Resume built with HTML & CSS