Christopher M. Sharkey

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Local Address: 306 Beaver Hall, State College, PA 16802

Permanent Address: 1 Knoll Lane, Glen Head, NY, 11545

Education The Pennsylvania State University, State College, PA August 2013 - May 2017 (Expected)

Bachelor of Science in Toxicology, GPA: 3.58 | Concentrations: Information Science Technology

Experience Information Technology Intern

August 2015 – Present

Humana, Enterprise Architecture | Louisville, KY

- Explored potential of data virtualization in data transformation process
- Researched implementation of natural language processing in Hadoop systems
- Researched application of machine learning in natural language processing

Lead Developer May 2016 - Present

ParkingBee, Technology Team | State College, PA

- Built and deployed a MEAN stack web application on Amazon Web Services
- Company enables subletting of parking spaces resembling Airbnb process
- Lead product development for IOS, Android and Web applications
- Website: www.parkingbee.co

Strategy Consulting Intern

May 2016 – August 2016

Booz Allen Hamilton, Strategic Innovation Group | Washington, DC

- Prototyped hardware platform to detect concentration of lead in water
- Developed a web application to interface with hardware via RESTful API
- Wrote technology related aspects of business plan

Information Technology Intern

May 2015 – August 2015

Humana, Enterprise Data and Analytics, Clinical Data | Louisville KY

- Built and deployed a .NET web application
- Application enabled a business unit within Humana to collect and process data
- Sourced design requirements and planned project prior to development

Teaching Assistant Fall 2014 & Spring 2015

Penn State, College of Information Science and Technology, State College, PA

- Assisted in the instruction of IST 402 Sensor and Effector Systems
- Prior to assisting instruction helped redevelop curriculum for the course

Leadership **Director & Founder**, Nittany Data Labs

September 2014 – Present

- Lead several data visualization and dashboard projects for Penn State clients
- Developed a 10 week data science training program for students
- Original founder of the organization

Technology Lead, Lion Launch Pad Accelerator

January 2016 - April 2016

- Part of executive committee running Penn State startup accelerator
- Accelerator provided equity free funding to student ventures
- Help multiple student run ventures with technologies solutions

Deputy of Guidance Navigation and Control, Lunar Lion Team

May 2014 - September 2015

- Lead systems integration on initial test craft
- Directly worked on hardware integration of new components
- Worked with serial connections between control unit and sensors

Technology Captain, Penn State IFC/Panhellenic Dance Marathon

April 2014 – March 2015

- Developed a LAMP stack web application
- Application managed Bryce Jordan Center capacity during THON
- Deployed software in scalable production environment for THON weekend

Projects

Optimizing Strategy for Ticketmaster

April 2016

- Utilized Tableau to segment Ticketmaster advertising budget
- Built models to predict click through rates on advertisement
- American Statistical Association Data Fest best overall project and best visualization

Optimizing Solar System and Buy/Sell Strategies

February 2016

- Utilized data on smart home battery discharge and charge levels
- Build a strategy for optimal energy buy and sell times
- Build a model to predict hourly energy demand

Predicting Diabetes with Machine Learning

September 2015

- Model for identifying if an individual has diabetes
- Tested ability of ZeroR, OneR, Naïve Bayes and C48
- Utilized meta- algorithms including boosting and bagging
- Competed at PennApps hackathon at University of Pennsylvania

Open Source Multirotor (Quadcopter)

January 2016 - May 2016

- Built a quadcopter from open source design and parts
- Completed an audit to understand to determine security concerns
- https://goo.gl/5Mc0Xd

Predicting Kidney Disease with Machine Learning

July 2015

- Model for identifying if an individual has chronic kidney disease and which stage they are in
- Tested ability of ZeroR, OneR, Naïve Bayes and C48
- Achieved 88.4% correct classification by 10 fold cross validation
- Competed at HackHi internal hackathon at Humana

Targeted Advertising with Machine Learning

March 2015

- Targeted advertising for Edmunds.com, models built from their data
- Classify user by behavior into class of ad they were most likely to click on
- American Statistical Association Data Fest best overall project and most creative

Visualization of Sexual Assault Data at Penn State

November 2015

- Complied sexual assault data relevant to Penn State
- Utilized MapBox API to plot data on a web based map
- www.alertpsu.com

Development of Curriculum for Sensor and Effector Course

January 2014 - December 2014

- Sensor and Effector Systems, IST 402
- Arduino based course on fundamentals of embedded programming and circuitry
- Wiki: https://goo.gl/Myurux

Awards

1st Place 2015 ASA Data Fest, 1st Place AEC Hackathon, 1st Place ASA Data Fest, Best Pitch Overall, 3rd Place Hack PSU, Recipient of Undergraduate Discovery Grant, Eagle Scout

Skills

JavaScript, Python, Node.js, Express.js, MongoDB, MySQL, HTML/CSS, Perl, C/C++, Linux, .NET Machine Learning, Analytics, Consulting, LEAN Product Development, Agile, IT Strategy

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