NICHOLAS FAUSTI

257 S 20th Street Apt 2R   609-575-4324(mobile)
Philadelphia, PA 19103
ncfausti@gmail.com

SUMMARY: A pragmatic and well-rounded software engineer with over 7 years of dynamic full stack application development experience. Completing MSE from UPenn in Computer and Information Science. Roles have encompassed junior positions in software testing, digital marketing website design and development, laboratory information management software development, and natural language processing. Expert command of a spectrum of programming technologies, development environments, and best practices in object-oriented development. Proven track record of delivering on both planned and unplanned efficiencies. Able to work effectively in team-based environments utilizing the Agile development methodology.

PROFESSIONAL EXPERIENCE:

IQVIA – Plymouth Meeting, PA (Remote)
Associate Director - Software Engineering — Analytics Center of Excellence   June 2018 – Present
- Building an API to expose machine learning models that help facilitate the selection of clinical trial investigator sites

Brightfield Group LLC – Chicago, IL (Remote)
Software Engineer Consultant   June 2017 – June 2018
- Developed a full-stack single-page application dashboard in React to view analytics information related to NLP
- Built a RESTful API in Django to facilitate interaction between backend databases and front-end of dashboard
- Integrated various social media APIs into SPA backend
- Scraped content from web, regularized, and stored in backend to be used in offline machine learning processing

University of Pennsylvania – Perelman School of Medicine, Philadelphia, PA
Sr. Research Programmer – Positive Psychology Center - World Well-Being Project   June 2016 – June 2017
- Developed a single-page application front-end for a personality evaluation tool
- Scraped all hospital reviews from Yelp using Scrapy library to run differential language analysis on
- Ran differential language analysis on multiple hospital characteristics using yelp review language data
- Building web infrastructure to expose internal natural language processing APIs to external researchers

Application Developer – Center of Excellence in Environmental Toxicology   Dec 2011 – May 2016
- Created a tool to automate the visual selection and data analysis of the calcium signaling fluorescence variation in cells as a result of pharmacological treatments using OpenCV, matplotlib, and Python
- Created a web based mapping and search system with Google Maps to help with the inference of a correlation between healthcare utilization in Northeastern Pennsylvania and hydraulic natural gas fracturing nearby
- Developed a freezer/reagent inventory application with Django, DRF API, and iOS barcode scanning front-end
- Worked as part of a team to create a natural language search system using the Python NLTK library to allow scientists to search medical records, environmental exposure data, and retrieve blood/tissue sample information for those records in plain English queries
- Successfully managed the migration of tissue sample data and participant case report form data into a new laboratory information management system at the proof of concept stage
- Gathered requirements for lab workflows and processes to be used as a model for future data migrations throughout the Perelman School of Medicine/Hospital of the University of Pennsylvania
- Working on creating an ontological framework to be used as a data standard for biomedical investigations throughout the Perelman School of Medicine
- Working on an iOS application for principal investigators to use as a tool to stay informed on the state of various projects/studies and view results from experiments involved with each study

Single Throw Internet Marketing, Wall, NJ
.NET Application Developer   Jun 2010 – Nov 2011
- Developed a content management system to offer to new and prospective clients. Allowed our clients with little technical knowledge to make simple content updates to their websites
- Trained clients and Single Throw employees to use the new content management system
- Build and manage web applications and projects using ASP.NET 1.1-3.5 framework
- Supervise a small team of developers that maintain and modify existing sites for over 200 clients
- Variety of skills: C#/VB.NET, ASP.NET Web Forms, Microsoft SQL Server 2005/2008, IIS6/7/, T-SQL, Stored Procedures, XML/XSLT/XPath, JavaScript, jQuery, HTML/CSS, Server/Database Migrations & Deployments

Comcast Corporation, Mt. Laurel, NJ
Software Test Engineer   Jan 2010 – Jun 2010
- Manual and automated testing of customer account management software
- Worked with development teams during all code deployments to ensure successful transitions from staging to production environments
- Gained exposure to all areas of the software development life cycle

Johnson & Johnson – Information Technology Services, Raritan, NJ
Software Development Intern   Jun 2004 - Sep 2005
- Created a web form application that greatly increased the productivity of Enterprise Data Backup team members
- Implemented changes and updates to current applications at the request of EDB team members
- Gained invaluable experience working in a team based environment as well as practical technical knowledge

PERSONAL: Eniapp Inc.   Nov 2013 - Present
              Founder / Application Developer
- Started a software consulting company that specializes in web development, mobile apps, and search engine optimization
- Built an interactive dashboard using ReactJS and D3 for a large information security company to track vulnerability management
- Successfully completed first web application for client from design to implementation using ASP.NET MVC architecture, JavaScript, jQuery, HTML5, and CSS
- 500+ hours of work in first three months
- http://www.eniapp.com

              Personal Website: http://www.nickfausti.com
              Github Profile: https://github.com/ncfausti

EDUCATION: **Master of Science in Engineering- Computer and Information Science.**   Sept 2017 - Present
              University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA

              Master of Science - Computer Science - Machine Learning Track   May 2017 - Present
              Georgia Tech., College of Computing

              Master of Liberal Arts - Anthropology, Statistics, and Public Policy   August 2015 - Present
              University of Pennsylvania, School of Arts and Sciences, Philadelphia, PA

              Post-Baccalaureate Graduate Studies - Computer Science   Jan 2012 – May 2015
              University of Pennsylvania, Philadelphia, PA
- Graduate courses in Computer Architecture, Programming Languages, and iOS Development
- Built a simplified C compiler using assembly language
- Programming languages used include: LC-3 Assembly, C, C++, Java, Python, Objective-C

              Bachelor of Arts in Information Technology & Informatics; Economics Minor   May 2009
              Rutgers University – School of Arts and Sciences, New Brunswick, NJ
              Major GPA – 3.75; Dean's List; Departmental High Honors

CORE SKILLS: Python; Javascript; HTML5/CSS3; React; jQuery; Java; .NET; C, iOS/Objective-C/Swift

PUBLICATIONS: PLOS ONE - July 15th, 2015
                Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates
                PONE-D-15-04533R1

REFERENCES: Furnished upon request.