

Peter Wilson

Project - Primary software engineer - GOOGLE

Pittsburgh, PA - Email me on Indeed: indeed.com/r/Peter-Wilson/8cfaad57f410ab69

Tech Lead, Senior Software Engineer

Over 9-years experience in Information Technology with emphasis on large-scale data management and applications, software engineering, web development, data analytics, and data product management.

Strong skills in software and product development life cycle methodologies, including Agile, DevOps, and iterative approach to business product development, extensive experience in User Interfaces (UI) design.

Strong skills in large-scale heterogeneous data integration, migration, analytics and data product management which involve in analyzing structured and unstructured data, designing SQL queries and scripting, defining test procedures, test cases, test scripts, and troubleshooting bugs.

Extensive leadership experience in communicating with team and clients, analyzing and translating business problems and user expectations into data analytics and business applications.

Strong skills in quantitative modeling and statistical decision making, including mathematical modeling such as Partial Differential Equations (PDE), econometric modeling, probability and statistics, predictive modeling, elasticity and sensitivity analysis, time series analysis, and optimization.

Previous industry experience in social network, marketing, financial risk management, travel, healthcare IT and large medical data management and applications.

WORK EXPERIENCE

Project - Primary software engineer

GOOGLE - New York, NY - September 2016 to Present

New York, NY

Ad Solutions Tech 9/16 - Present

Large Client Facing - Specialization on AdWords with mobile implementation strategies for both Android and iOS.

Support Topics include: - Conversion tracking, deep linking, 3rd party analytics setup, and UAC setup.

20% Project - Primary software engineer on an internal tool that will save at over 3 engineers per years for teams that will integrate the tool in to thier workflow.

Senior Fullstack Engineer

GOZENGU (CLOSED) - New York, NY - January 2016 to July 2016

Developing and maintaining new and existing APIs as well as integrating 3rd -party APIs.

Working cross-functionally with key stakeholders in the business to ensure successful design and implementation.

Interviewing job applicants and mentoring junior and senior engineers.

Architecting framework using PHP 5.6, Symfony 2.8, Mysql, backbone JS, RabbitMQ, redis, and nginx.

Quantitative Research Analyst Intern

HSBC - New York, NY - June 2015 to December 2015

Analytics: Quantitative modeling with time series analysis for financial product risk management. Present model limitations and mitigations to senior management. Support product control in the proposition, refinement and implementation of fair value adjustments.

Development: Implementation and management of quantitative data analytics tools for infrastructure.

Founder and CTO

TECHNOLOFLY (CLOSED) - Pittsburgh, PA - November 2013 to June 2015

Founded start-up to build large-scale data-driven business analytics products for high traffic modern web infrastructures and mobile platforms to facilitate personalization, forecasting, and efficient business decision making for clients.

Recent clients included a major cloud computing partner of Microsoft on projects related to online education platform data analytics.

Paused while attending Tepper

Volunteer

CARNEGIE MELLON UNIVERSITY - Pittsburgh, PA - September 2014 to May 2015

Research Assistant for Google Research Award-winning project on mobile trajectory-based data analytics using temporal - spatial mining.

Software Engineer

UNIVERSITY OF PITTSBURGH MEDICAL CENTER - Pittsburgh, PA - May 2013 to October 2013

Responsible for developing UPMC's innovative award-winning Virtual Care Collaboration (VCC) project.

Designed and launched a large-scale doctor-patient networking platform that allows for efficient and scalable data management based on TB- sized data for more than 10 Million users.

Senior IT Consultant, Tech Lead

THE FORUM GROUP - New York, NY - September 2012 to December 2012

Led successful development for an innovative IT protocol into existing infrastructure to support data scalability.

Senior IT Consultant

IDT PARTNERS - New York, NY - April 2012 to September 2012

Managed the development of 2 websites, including a CRM application.

Developed using Linux, PHP, CakePHP, Subversion, MySQL, HTML, CSS, and JavaScript environment.

IT Technical Consultant (Volunteer)

STERN SCHOOL OF BUSINESS, NYU - New York, NY - October 2007 to June 2012

Built a custom Hotel Search Engine that integrates with the Facebook(using the Facebook API) for the purposes of measuring the effectiveness of the users' behavior from search to purchase under various experimental settings given Facebook users' personal data.

Built a Survey Platform on a LAMP environment, that seamlessly incorporates into Amazon Mechanical Turk (a crowd-sourcing platform), collected the data and built reports.

Participated in the Microsoft Virtual Earth Award-winning project for improving search engine performance with econometric modeling and data mining.

Using C#, Java, PHP and Python, implemented several web crawlers for collecting GB sized data.

MARKET RESEARCH FIRM

GUIDEPOINT GLOBAL - New York, NY - November 2007 to April 2012

Led several core projects. Major contributor to designing the system framework based on a Linux, PHP, MS SQL Server, Subversion, MySQL,

HTML, CSS, and JavaScript environment; developing database web applications.

Conducted data cleaning, integration, and analysis within large business networks.

Managed 3 websites, including a custom CRM application; Managed an offshore development and QA team in India.

Worked in diagnosing, testing, and deploying help-desk issues to the production in environments.

Worked closely with the Compliance Officer to implement custom compliance protocols for Clients.

UNIVERSITY OF KENTUCKY - Lexington, KY - 2005 to 2008

Researched invariant properties of nonlinear functions over finite fields, and properties of eventually periodic sequences. Both of these areas

were studied in the context of cryptography.

Teaching and PhD Research Assistant in computer science

UNIVERSITY OF KENTUCKY - Lexington, KY - August 2004 to April 2007

Teaching and research assistant in computer science department. Responsible for evaluating students' work and giving lectures. Taught C++

(undergraduate core) to college students.

math tutor

NORTHERN KENTUCKY UNIVERSITY - Highland Heights, KY - April 2002 to May 2004

Highland Heights, KY

4/02 - 5/04

Worked with physics department developing an online real time physic environment using C++ and Direct X.

Worked as a math tutor for calculus I and II, and precalculus.

Checkpoint Security Supervisor

HUNTLEIGH USA INC - Hebron, KY - February 1998 to May 2003

Cincinnati Airport for Huntleigh USA INC employee where I worked in several departments ranging from assisting people in wheelchairs to security. Last position was checkpoint security supervisor responsible for all operation at a security checkpoint during my shift.

Celebration of Student Research

NORTHERN KENTUCKY UNIVERSITY - 2003 to 2003

NORTHERN KENTUCKY UNIVERSITY - Highland Heights, KY - 2002 to 2003

Developed the "Interacts 3D Floor Plan Viewer" project in the computer science department. Presented this project at "2003 Posters at the

EDUCATION

MBA

CARNEGIE MELLON UNIVERSITY (TEPPER SCHOOL OF BUSINESS) - Pittsburgh, PA

2014 to 2015

MBA

UNIVERSITY OF KENTUCKY - Lexington, KY

PhD in ACM regional programming contest

NORTHERN KENTUCKY UNIVERSITY - Highland Heights, KY

SKILLS

MYSQL (5 years), JAVASCRIPT (4 years), LINUX (4 years), Subversion (4 years), C++ (4 years)

ADDITIONAL INFORMATION**SKILLS**

Tech Skills - PHP5.6+, C, C++, Java, Python, Symfony 2.8, MapReduce, SQL, MS SQL Server, MySQL, Apache 2.4x, HTML5, XHTML, CSS3,

JavaScript(ES5 and ES6), AS3, Ruby on Rails, Direct X, Open GL, Subversion and Git., C#, Perl

Data Analytics Tools - R and Matlab, SAS Enterprise Miner, Weka, Gretl, Risk Solver, EViews, Excel; Text Analysis and Natural Language

Processing.

Platforms - Solid knowledge cross different development platforms including mobile (Apple, Android) and web (Linux, Windows) environments.