Contact

www.linkedin.com/in/
peterkimprofile (LinkedIn)
github.com/pkgit123 (Personal)

Top Skills

Licensing
Strategy
Patents

Certifications

Introduction to Linear Models
and Matrix Algebra (Honor Code
Certificate)

Neural Networks and Deep Learning

Statistics and R for the Life Sciences
(Honor Code Certificate)

Cybersecurity Fundamentals (part of
Micromasters)

Power BI Top Skills

Patents

Method and apparatus for
compensating participation in
marketing research

Method and apparatus for facilitating
game play with a mortgaging option

Method and apparatus for playing
a card game including a bust
insurance option

Method and apparatus for playing a
card game including a mortgaging
option

Systems and methods wherein a
player indicates an item that may
be received based on a game event
outcome associated with the player

Peter Kim

Data Scientist at Karma Automotive | Author at HardyStocks.com |
Technical Reviewer at Manning Publications
Irvine, California

Summary

Valuable and broad career experiences in data analytics,
automotive, healthcare, licensing, technology, finance. Digital
worker who is fluent/bilingual in both "technology" and "business";
effective utility player at multiple roles: Data Scientist (startup)
and Business Development Executive (Senior Director at Public
Company). High-impact, hard-working, personable professional.
M.S. in Data Science. B.S. in Finance and Information Systems.

Software skills and interests:
* Python: Jupyter Notebook, Anaconda, Numpy, Pandas, SciKit-
Learn, Matplotlib, JSON, Selenium, Beautiful Soup, ZeroMQ /
zmq, nltk, TextBlob, spaCy, keras, theano, cryptodomex, pgpy,
fuzzywuzzy, regex, PyCharm, luigi, SmartSheet, email-reply-parser.
* MySQL Server and MySQL Workbench.
* Tableau: interactive data visualizations and dashboards (business
intelligence), and server administration.
* R: Rstudio, dplyr, lattice, scatterD3, foreign.
* SAS Enterprise Guide (EG): multivariate statistics.
* Weka: open source data mining tool written in Java.
* Orange Canvas: data mining tool written in Python.
* Processing (visualization tool from processing.org).
* Elixir: a dynamic/functional language that leverages the Erlang VM
* SWI-Prolog
* Amazon Web Services (AWS): EC2, S3.
* Microsoft Azure: HDInsights, Hadoop, Hive, Spark
* Other: Putty, Puttygen, WinScp, Microsoft Remote Desktop,
Notepad++, Sublime, SelectorGadget, Github

Cybersecurity Micromasters on edX, completed 2 out of 4 verified
certificate courses (Jan-Mar 2018). Courses from Rochester Institute
of Technology (RIT).

Neural Networks and Deep Learning by deeplearning.ai (Professor Andrew Ng) on Coursera. Certificate earned on October 8, 2017.

Completed 2 Honor Code Certificate Courses in Data Analysis for Life Science on edX in 2015. The 4 courses comprise an XSeries Certificate Program offered by HarvardX.

Experience

Karma Automotive
Data Scientist
August 2019 - Present (8 months)
Karma Automotive designs, engineers, and markets luxury electric vehicles.

Data Science department.

Keywords: Amazon Web Services (AWS): EC2, Redshift, RDS, VPC, Lambda, S3, Control Tower, CloudWatch, etc. MariaDB, MySQL CLI, MySQL Workbench. SAP GUI scripting, SAP-C4C API, SAP-Fiori API. Power BI. Python pandas, numpy, sqlalchemy, json, requests, selenium. Postman. Automation.

Projects focus on data lake, data ingestion, and big data analytics (AWS S3, Amazon EMR, Spark, EMR Notebooks, Koalas databricks, python/pandas).
* Data sources include custom IoT database application, AT&T IoT wireless usage data, SAP-Fiori manufacturing and financial data, SAP-C4C customer interaction data, SAP-Litmos employee traning data, and Google Analytics website data.
* Data ingestion includes MariaDB connection via Sqlalchemy and Hadoop/ Spark Driver Jars, and Restful APIs.
* Compute via AWS-Lambda, AWS-EMR, and local machine, running Hadoop/ Spark and core Python.
* Output data warehouse in AWS Redshift, visualizations via Power BI dashboards.

Teaching internal Python training sessions.

Creating System Documentation, Playbooks, Onboarding/Training.

HardyStocks.com
Author/Founder (side hustle)
March 2019 - Present (1 year 1 month)

Financial newsletter for resilient investing. I publish free monthly articles on a current component company of S&P 500 index. I will also publish weekly premium articles. Side project blog started in March 2019, combines some of my favorite interests:

* Finance and Investing
* Software and Data (Python!)
* Writing and Reading

Available at HardyStocks.com. Twitter (@realHardyStocks).

Manning Publications Co.
Technical Reviewer (freelance)
December 2019 - Present (4 months)
Online

Review proposals for Manning Books (e.g. liveProject publication), by contributing my expertise in data science and business. Read author's proposal, provide feedback on clarity, commercial interest, potential students, suggestions on tools and programming languages, alternatives for learning, manageability, and potential gaps in learning path.

https://liveproject.manning.com/info
In a Manning liveProject ("LP"), you figure out how to build a working solution to a real-world data or software problem. Following the project description, you'll complete milestone deliverables and work towards a final project step-by-step. To help you out, you'll have access to book and video resources, and be able to collaborate with a peer group and an expert project mentor.

Crossover Health
Data Scientist
July 2017 - July 2019 (2 years 1 month)
San Clemente, CA

Crossover Health is a venture-backed start-up that provides medical care to the largest technology companies in the world. Clients include self-insured employers with an employee benefit of private on-site medical care (or shared near-site medical care). In December 2016, Crossover raised $92M from Gurnet Point Capital, a unique healthcare fund with a long-term focus. Current

role as Data Scientist on Business Intelligence team, to deliver data analytics across entire enterprise.

High-leverage projects:

(1) Streamline CEO/CFO operational metrics presentation for Board of Directors meetings.

(2) Convert individual knowledge into corporate information --> lead by example in proactively documenting legacy code base and systems architecture (e.g. technology stack, infrastructure, process work flows, data sources, data dictionaries).

(3) Author new "Playbooks" collection for detailing important recurring back-end server administration activities.

(4) Formalize new employee onboarding process by publishing checklists, training manuals, and case studies.

(5) Write new software libraries to abstract reusable code components across code base.

(6) Refactor code for improved human readibility, preventing data bugs, enhancing archived data logs.

(7) Design and implement new automated workflows to scale operational efficiency (e.g. custom public key encryption datafeed for partners, high-frequency marketing distribution lists, physician productivity metrics incorporating timecard data, high-volume clinic phone call dashboard to authorize increased staffing).

(8) Develop new customized datasets (Python/SQL) and dashboard visualizations (Tableau) to drive policy via client education (e.g. appointment cancellations).

(9) Create and maintain ETL software scripts (Python and SQL) for transforming raw data into analytics assets.

(10) Serve as coverage data scientist resource to largest onsite technology company client.

UC Irvine
Part-Time Teaching Assistant
July 2018 - February 2019 (8 months)

Part-Time Teaching Assistant for UC Irvine Data Analytics Bootcamp (partnership between Trilogy Education and UCI School of Continuing Education). My favorite part was teaching students about Python.

My biggest takeaway is that anyone can learn how to code (if the student brings hard work and motivation, and teacher provides good direction). The fastest way to accelerate learning to code is: (1) pick a coding exercise that is topic of interest to student, (2) student must code a lot in order to learn (books and lectures are not sufficient), (3) students must embrace repetition and troubleshooting as part of learning journey.

WiLAN
Senior Director, Business Development
March 2015 - February 2017 (2 years)
Costa Mesa, CA

WiLAN is a publicly-traded Canadian patent licensing company, with U.S. offices in Costa Mesa and San Diego (California). As of 2017, the parent company was renamed Quarterhill, and became a holding company for various technology businesses.

Irvine Pointe Advisory
Principal
November 2012 - March 2015 (2 years 5 months)
Irvine, CA

Description: Trusted Adviser to companies, investors, and patent holders in matters related to Intellectual Property Strategy.

* Advised multi-billion-dollar international consumer goods firm on IP strategy for new manufacturing technology. IP Strategy involved licensing, joint ventures, patent pools, standards, supply chain, spin-offs, and case studies for driving future market adoption.
* Private investment conferences sponsored by global investment bank (BNP Paribas), hosting 1-on-1 meetings with institutional asset managers interested in IP market (e.g. fund managers and analysts at Lone Pine, Soros, Moon, Shannon River, P. Shoenfeld, Jericho, Neuberger Berman, Mason).
* As part of the firm's mission to "Demystify IP Strategy", active thought leader in industry conferences and publications.

ARTICLES AND SEMINARS:

* Introduction to Patent Acquisition & Licensing (Korean Institute for Advancement of Technology)
* Welcoming "The Innovator's Dilemma" to Patent Committees (article in IAM Magazine)
* Patent Strategy Inspired by Sun-Tzu's Art of War (Washington State Patent Lawyers Association)
* Avoiding 5 Common Patent Pitfalls (Startup LifeSciences Blog)
* Deciding Whether to Sell or License IP (Patexia Webinar)
* Panel Discussion on IP Strategy (Strategies in Light)
* Driving Adoption of New Technology by Nurturing an Ecosystem (Licensing Executives Society)
* How the Activist Shareholder is Altering the Patent Landscape (Licensing Executives Society)
* Primer on Patent Pools (Licensing Executives Society)
* Lessons from Non-Practicing Entities (Licensing Executives Society)

Rambus
Director, IP Strategy (Semiconductor Group)
October 2011 - October 2012 (1 year 1 month)
Sunnyvale, CA

Primary responsibility: acquire outside semiconductor patents in order to drive future IP licensing revenue (including renewals with large licensees). Summarize high priority acquisition opportunities in multi-disciplinary and multi-stage M&A funnel meetings (involving various departments: Corporate Development, IP Strategy, Patent Lawyers, M&A Lawyers, Technologists, Finance, Executive Staff).

Project Manager and Deal Catalyst for 5 different semiconductor M&A working groups:
* DRAM,
* Non-Volatile Memory (NVM),
* Semiconductor Packaging,
* Serializer/Deserializer (SerDes), and
* Processors/Compute.

Created 100+ new acquisition target opportunities. Deal lead for over 200 acquisition targets. Primary deal interface for 20 outside patent brokers, finders, and investment bankers.

Technology Forecasting and Business Analysis: Annual New Memory Technologies Adoption Roadmap. Developed bottom-up financial market forecasting model used in M&A business case with technology analysis from working group. Created patent landscape based on market/portfolio analysis (comprising DRAM, NAND-Flash, 3D-NAND, 2.5D/3D-IC, RRAM, STT-MRAM, and other potentially disruptive new memory technologies). Prioritized acquisition strategies for each of the technologies based on adoption forecasting.

Acacia Research
Senior Manager, Business Development
December 2007 - July 2011 (3 years 8 months)
Newport Beach, CA

Acacia is a publicly-traded patent licensing company that acquires and monetizes patent portfolios. My role was patent acquisition to drive future revenue growth.

Acquisitions for which I was personally responsible have generated millions of dollars of revenue to-date.

I contacted over 1,000 inventors and patent owners in order to create proprietary acquisition deal flow. I negotiated 16 patent portfolio acquisitions.

Co-founded the "Automotive Sensors" industry vertical with VP of Engineering (built systematically using industry research, litigation landscaping, patent mining, and proactive marketing).

I also sourced one of the company's largest deals (a multi-million-dollar acquisition). The assets were consumer electronics patents, originally issued to Philips Electronics (a major international technology company).

Bay Ridge Partners
Manager, Corporate Development (Founder)
October 2005 - December 2007 (2 years 3 months)
New York, NY

Bay Ridge Partners was an investment vehicle to acquire, develop, and sell technology patents. The primary technology / industry focus was on consumer electronics.

I recruited a 9-person advisory board -- including a VC, private investor, hedge fund analyst, retired Bell Labs "Distinguished Member of Technical Staff", patent litigator, NYU finance professor, BCG consultant, software entrepreneur, and patent entrepreneur.

I also sourced patent acquisition deals from major international technology companies.

TransMarket Group
Trader
January 2007 - November 2007 (11 months)
New York, NY

Interest Rates Trader for a private Chicago-based trading and investment firm. Focused on relative value arbitrage of yield curve / interest rates products ... CME Globex, CBOT, and BrokerTec... Eurodollar futures (LIBOR), U.S. Treasury Cash, and U.S. Treasury Futures. Licensed in Series 7.

IPVALUE Management
Patent Licensing Associate
May 2002 - September 2005 (3 years 5 months)
New York, NY

IPVALUE is a venture-backed patent licensing firm (investors: Goldman Sachs, BCG, and General Atlantic Partners). Business model: provide capital and expertise to Fortune 500 companies to close patent licensing deals, in exchange for a revenue share.

I reported to a member of the Board of Directors (Managing Director at iFormation Group), and was chosen as the company's point-of-contact for acquisition of Xerox Corporation as a key new client representing $100M+ revenue opportunity. Interfaced with Xerox top executives to analyze existing licensing activities, showcased company and team capabilities, handled operational and licensing program prep for 6,000-patent partnership once account was won.

Portico Capital
Investment Banking Associate
October 2000 - May 2002 (1 year 8 months)
Greenwich, CT

Raising private capital for growing technology companies, providing M&A advice to mid-sized technology companies, publishing a quarterly industry report on 70+ public technology services companies.

Portico Capital advised on $15M Series-B venture-financing for Capital IQ (eventually acquired by S&P) and M&A sale of OneSource Information Services for $100M+.

Walker Digital
Invention Developer
June 1999 - October 2000 (1 year 5 months)
Stamford, CT

Inventing and patenting new ways of doing business. Specialized in business method patents in many areas including: retail, web commerce, financial services, gaming, slot machines, and vending machines.

Co-inventor on 17 U.S. patents --- including 2 patents sold to Groupon, and 12 patents sold to IGT.

Promoted to Head of the Financial Services cluster. Responsible for managing both ongoing office actions and new invention disclosures for financial services patents.

Founded by Jay Walker, Walker Digital invented the Priceline.com patent portfolio.

Bear Stearns
Equity Research Intern
January 1999 - April 1999 (4 months)

Worked for Institutional Investor #1 Ranked Analyst.

Deloitte Consulting
Technology Consultant Intern
June 1997 - August 1998 (1 year 3 months)

Part of Client-Server Solutions Group (WFC). Delivered Technology Strategy Assessment project for Insurance Mutual company. Developed New York office intranet. Also interned with Deloitte Research, part of Deloitte National Office.

Intrusion Detection

Computer Security Intern

January 1996 - May 1997 (1 year 5 months)

New York, NY

Intrusion Detection was sold to Security Dynamics (now part of EMC).

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Education

Lewis University

Master of Science - MS, Data Science · (2017)

New York University - Stern School of Business

B.S., Double Major: Finance and Information Systems. Minor:
English · (1995 - 1999)

Milton Academy

High School Diploma