Winnie Lee

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EDUCATION

University of California, Berkeley 2017 – 2019
Master of Information Management and Systems
Coursework: Artificial Intelligence, Applied Machine Learning, Natural Language Processing, Big Data Development, Database Management, Quantitative Research, Data Science, Web Architecture.

National Chengchi University, Taiwan 2005 – 2009
Major: B.S. in Computer Science; Minor: European Language and Culture
Study abroad coursework in Management at Escola De Administração De Empresas De São Paulo – FGV, Brazil

EXPERIENCE

Graduate Student Researcher - Data Science, University of California, Berkeley 2018 – Present
- Develop machine learning models using Scikit-learn and Tensorflow to classify gamma-ray (0.2-5 MeV) data collected by balloon-borne telescope for studying astrophysical sources of nuclear line emission and gamma-ray polarization.

Backend Web Team Manager, Ruten – PChome Online & eBay JV 2015 – 2017
- Recruited and mentored a team sized 20, consisting of backend and frontend engineers.
- Collaborated with stakeholders(e.g. project managers, customer relations, marketing) to design functions and business models of products to ensure feasibility and accountability.
- Administered project scheduling and timeline scoping, distributed tasks to engineers, and code-reviewed for backend programs with agile approach in order to ensure product quality and on-time delivery.
- Coordinated API specs and system integrated testing with external partners of logistics and third party online payment.

Backend Web Engineer, Ruten – PChome Online & eBay JV 2012 – 2015
- Developed website and transaction related feature APIs ranging from bidding, online payment, to products delivery on the C2C e-commerce website, mobile app, and ERP systems with PHP and Mustache.
- Built package tracking and payment after delivery mechanism on the C2C shopping website in PHP and SQL, parsing FTP/ SOAP data from external logistics partners, providing more convenient shipping options for users and gaining more user behavioral data for decision making.
- Refactored legacy programs to improve OO structure and to better integrate with new product features.
- Overhauled website encoding from Big5 to UTF-8 of thousands of webpages and Data model, in order to solve long-existing Chinese character incompatible issues.
- Diagnosed and resolved the most difficult or urgent product functionality issues.

Co-Founder / Full-Stack Developer, Self-employed 2011 – 2012
- Managed and mentored a 5 person team of developers and designers, matching projects with skills and distributing tasks by skills levels, individuals' strengths.
- Designed and developed business websites using HTML/ CSS3/ JavaScript/ PHP with Drupal for clients.
- Pitched and communicated with clients for website design and features, exploring clients' real needs.

Web Engineer, Mobile01 2010 – 2011
- Managed relations with technology manufacturers and collected product data from these partners to ensure our website got the most exclusive product news for our users.
- Developed a product specifications comparison system using PHP and JavaScript on the technology product forum, helping users make purchase decisions.

APAC Web Engineer, NVIDIA Corporation 2009 – 2010
- Maintained contents on 4 NVIDIA websites in APAC regions (China, Korea, Japan, Taiwan).
- Collaborated with colleagues from headquarters and other subsidiaries in different countries on website development using Flex (ActionScript) and MATE framework.
- Developed interactive websites using HTML/ CSS3/ JavaScript/ PHP for marketing campaigns under extremely limited timeframe.
- Analyzed and visualized website clicks data to assist website components positioning design.

PROJECTS

A Code Search Engine for Open Source Code in Python 2019
Build a search engine to search Python source code directly with natural English using natural language processing and neural networks.

Using Satellite Imagery and Deep Learning to Evaluate Aid Distribution in Myanmar 2019
Use machine learning to explore to what extent the variation in community-led development projects in Myanmar is explained by poverty and wealth measures.

Real-time Tracking of Deformable Human Avatars 2018
Built a human pose tracking system by fusing low-dimensional 2D and 3D kinematic models with computer vision techniques.

MoMA artwork search using colors 2017
Developed a Python app to search MoMA artworks by dominant colors using Google Cloud Vision API.

SKILLS

Languages: Python, PHP, SQL, JavaScript
Database: MySQL, Oracle, MongoDB, SQLite
Machine Learning Libraries: Scikit-Learn, TensorFlow, Keras, NLTK, SpaCy
Tools and Frameworks: Flask, Mustache, Jupyter Notebook, SVN, Git, Tableau