Pengyang Zhou

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EDUCATION

University of California, Santa Cruz	Santa Cruz, CA

Master of Science in Computer Science (GPA:3.85/4.0) Aug. 2018 – Present
Courses: CMPS242 Machine Learning, CMPS201 Analysis of Algorithms, CMPS200 Teaching and Reseach in Computer Science

North China Electric Power University (NCEPU)	Beijing, China

Master and Bachelor of Engineering in Computer Science and Technology Sep. 2007 – Apr. 2014
Courses: Artificial Intelligence, Internet of Things, Clouding Computing, Computational Mathematics, Advanced Software Engineering, Advanced Computer Networks, Advanced Operating Systems, Network and Information Security, etc.
Honors: Excellent Graduate Leadership (Top 1%), Excellent Graduate Student, University Graduate Scholarship, First-Class Scholarship. (Top 10%)

SKILLS

- **Machine Learning:**   Machine learning theories, scikit-learn, Kaggle
- **Programming Language:**   Python, Java, ASP.NET, C#, C/C++, JavaScript.
- **Front-end Technology:**   AngularJS, jQuery, HTML/HTML5, CSS, JSON, XML, HTTP.
- **Back-end Technology:**   Oracle, SQL Server, MySQL, PostgreSQL
  Spring MVC, Django, Apache, Tomcat, Weblogic, IIS, Nginx.
  Docker, Maven, JUnit
- **Operation System:**   Linux (Ubuntu, Redhat, CentOS, Kali), Windows Server.
- **Security:**   Penetration test, Log Analysis, Code audit, Firewall, IPS, IDS.
- **Others:**   Analytical and problem solving skills, Team spirit.

REASEARCH EXPERIENCE

Research Team Member & System Development Team Leader, Advisor: Prof. Wang Ying
North China Electric Power University   Beijing, China

- **Study on Monitoring Technology of Geomagnetic Induction Current Anomalies in Long Distance Power Network** (Sponsored by National High Technology Research and Development of China 863 Program: 2012AA121005)   Mar. 2012 – Apr. 2014
  - Investigated the forecasting method of GIC data through artificial intelligent algorithm, NARX and WNN.
  - Developed *Power Grid GIC Monitoring and Early Warning System* for the project, responsible for system investigation, design, development, testing, and maintenance.
  - Developed web pages for data display and analysis through AngularJS, Restful API, MsChart API, Google Map API; Developed backend code and used SVN for code version control.
  - Clustered SQL Server database through mirrored disks for disaster recovery.

WORKING EXPERIENCE

Teaching Assistant (CMPS 101 Data Structure and Algorithms)   Sep, 2018 – Dec, 2018
University of California, Santa Cruz

- Lead two discussion sections and office hours for solving students' problems of learning algorithms.
- Helped professor for grading and homework review.

Information Security Engineer & System Architect   July, 2014 – Present
State Grid Corporation of China – Zhengzhou Power Supply Company   Zhengzhou, China

- Monitoring and scanning vulnerability of operating systems, websites, databases, applications, etc.

- Virus analysis and removal, firewall configuration and strategies design, log analysis.
- Organizing response to network security incidents, investigating insider threats.
- **Honors:** Outstanding Individual in Information Security Activity, Excellent Security Inspector
- Project Experience:
  - **Wireless Communication Service Platform in Power Cable Tunnel**
    - Studied project feasibility, analyzed weaknesses of existing communication situation in electricity cable tunnel and proposed possible technical solutions.
    - Designed a three-layer network architecture with core layer, transport layer and access layer for wireless platform.
    - System functional testing and code audit.
  - **Application of Smart Terminals in Power Grid Emergency Command System**
    - Communicated the system requirements with products providers.
    - Designed Emergency Command System architecture integrated smart terminals platform and digital trunking system.
  - **Improve Techniques and Management Methods of Network Access Control**
    - Optimized network access control through strategies of switch ACL and security management system.
    - Wrote shell scripts for Linux and Windows to reinforce operation systems.

Thomson Reuters   **Beijing, China**
Software Developer Intern (C#, Java)   July. 2013 – Jun. 2014
- Analyzed website structure through Fiddler; Wrote automation application to fetch and analyze financial data from websites, local files and databases; wrote web client, office handler, pdf handler classes to simulate HTTP methods, get data from OFFICE and PDF files.
- Designed web API for data transmitting to other two databases.
- Improved task efficiency through designing algorithms and database tables.
- Optimized project framework and user-interfaces through reducing configuration items and adding log classes.
- Completed 13 tasks for 3 financial markets and resolved 53 stories on JIRA with good quality.

Beijing Rongxinchuan Technology Co., Ltd.   **Beijing, China**
Software Developer Intern (Java)   Jun. 2011 – Jun. 2012
- **Job position:** as a team leader in one project, as a developer in three projects.
- Responsible for user requirement analysis, database design, coding and deployment as a team leader in one project.
- Responsible for web pages and backend code development in three projects.
- Optimized front pages with jQuery and blueprint CSS framework.

PUBLICATION

- **Pengyang Zhou,** Ying Wang*, Lianguang Liu*. *Research on Forecasting Method of GIC Caused by Gradual Commencement Magnetic Storm* [C]. Fifth International Conference on Computational and Information Sciences. IEEE, 2013:1975-1978.
https://drive.google.com/file/d/113z8upEs4T8EOQr8t55TDzK4FVMLQvUn/view?usp=sharing
- **Pengyang Zhou**, Anfeng Song, Hongwei Li. *Improve the Information Network Security Access Management Level of Power Grid by Multiple Measures* [C]. Conference on Chinese Society for Electrical Engineering. 2016.
- Anfeng Song, Dong Zhang, **Pengyang Zhou**, Xingxing Zhang, Xiangyang Jia. *Integrated Communication Platform for Power Cable Tunnel Based on Wireless* [J]. Electric Power Information and Communication Technology. 2017(8).