Yongming Ding

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EDUCATION

Carnegie Mellon University - Information Networking Institute   *Pittsburgh, PA*
Master of Science in Information Technology (Mobility)   *Aug. 2018 – May. 2020 (expected)*

⋄ Overall GPA: **4.0**/4.0   Scholarship: INI Scholarship

⋄ Coursework(*: current): Introduction to Computer System, Web Application Development*, Storage Systems*

Shanghai Jiao Tong University   *Shanghai, China*
Master of Science in Electronic Science and Technology   *Sep. 2016 – Mar. 2019 (expected)*

⋄ Major GPA: **3.9**/4.0   Ranking: **8**/116   ⋄ Overall GPA: 3.7/4.0

⋄ Coursework: Advanced Computer Architecture, Machine Learning, Advanced Database Techniques

⋄ Awards: 2017 Tang Youshu Scholarship (Top 4%), 1st Prize in 12th China Graduate Electronics Design Contest.

Bachelor of Science in Microelectronics   *Sep. 2012 – Jun. 2016*

⋄ Major GPA: **3.8**/4.0   Ranking: **8**/50   ⋄ Overall GPA: 3.6/4.0

⋄ Coursework: Operating System, Computer Architecture, Algorithm and Compiler Techniques, Data Structure

⋄ Awards: 2013 & 2014 Scholarship of Academic Excellence (Top 30%), 2013 & 2014 SJTU Outstanding Student

PROFESSIONAL EXPERIENCE

Tencent Technology Co., Ltd.   *Shanghai, China*
Software Engineering Intern, YouTu Lab of Tencent Social-Network-Group   *Apr. 2018 – June 2018*

⋄ Implemented the web service of an intelligent lung cancer screening system with **Django**, **Vue.js**, and **Element-ui**.

⋄ Deployed the web service with **Nginx** and **MySQL** database at Fudan University Shanghai Cancer Center.

⋄ Achieved 86% detection accuracy of early lung cancer and improved doctor's cancer diagnostic efficiency by 5 times.

Ctrip Computer Technology Co., Ltd.   *Shanghai, China*
Software Engineering Intern, Application Management Group of Ctrip Infrastructure Service   *July 2015 – Dec. 2015*

⋄ Constructed the back-end job of an alert event subscription system, eliminating 90% useless alert events for DevOps.

⋄ Built "Prometheus", a web service display platform to show the dependency relationships among 10,000+ servers.

⋄ Developed Ajax based frontend with **Bootstrap**, MVC backend with **Django** and backend job queue with **Celery**.

SKILLS

Languages	Python, C, C++, HTML/CSS, SQL, Javascript
Technologies	Django, MySQL, Bootstrap, jQuery, Vue.js, Nginx, Celery, Tornado, Element-ui, Git

RESEARCH EXPERIENCE & PROJECTS

Grumblr, a nano-twittering site for users to blog about their life.   *Aug. 2018 – now*

⋄ Designed and implemented a featureful, interactive web application including user registration and authentication, email integration for user verification, photo upload, people following, blog commenting, and quasi-real-time updates.

⋄ Used **jQuery** Ajax to enable real-time updates, **Django** to implement MVC backend and deployed on **AWS**.

CloudFS, an Amazon S3 cloud-backed local file system   *Oct. 2018 – now*

⋄ Built a fail-resilient hybrid file system using FUSE interface located on SSD and backed by Amazon S3 cloud storage.

⋄ CloudFS supports size-based data placement, block-level deduplication, file system snapshot, and write-back cache.

Linear Programming optimization of short path padding   *July 2016 – Nov. 2017*

⋄ Designed and implemented a short path padding software employing integer linear programming optimization.

⋄ Proposed step-by-step based and path group based schemes to reduce 80.9% runtime of the baseline algorithm.

"Eye of Providence", an Intelligent Monitoring System   *May 2017*

⋄ Built a monitoring system to detect sleepy students automatically, using face and facial expression recognition.

⋄ Implemented MVC back-end with Python **Tornado**, front-end with **JavaScript** and **Semantic UI**.

PUBLICATION

Yongming Ding, Wei Jin, Guanghui He, Weifeng He. "Short Path Padding with Multiple-Vt cells for Wide-Pulsed-Latch Based Circuits at Ultra-Low Voltage." *2017 IEEE 12th International Conference on ASIC (ASICON)*