WENYE (ALEX) ZHANG

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EDUCATION BACKGROUND

University of California, Los Angeles (UCLA)   *Sep. 2021 - Present*
Computer Science MS program

Shanghai Jiao Tong University (SJTU)   *Sep. 2016 - Jun. 2018*
Master of Finance, Shanghai Advanced Institute of Finance (# 1 Master of Finance Program in Asia)
GPA: 2.98/3.3, Ranking: 2/51, CFA Awareness Scholarship, Graduate Excellence Scholarship

Shanghai Jiao Tong University   *Sep. 2012 - Jun. 2016*
School of Mathematical Science, Bachelor of Science in Mathematics and Applied Mathematics
GPA: 3.93/4.3, Ranking: 2/80, Graduated with Honor, National Scholarship

SELECTED PROJECTS

IOS Application Development, "PupGo"   *Sep. 2021 - Present*
- Develop an IOS APP for dog persons to connect and walk dogs together
- Implement MVVM design pattern; responsible for view controller and view model, structure Swift codes on creating & editing dog profile, swiping photos to meet dog buddies, exploring recommendation page on nearby events and requests responses
- Co-work on functions realized on back end: accounts registration and removal, dog profile validation via image recognition algorithm, individualize events exploration page via recommendation algorithm

Enhancing Open-Source Core Networks to Support NB-IoT Devices   *Sep. 2021 - Present*
- Master the architecture of 4G LTE/NB-IoT link layer protocols, general procedures, and overall architecture
- Implement CP CIoT Optimisation (Data-Over-NAS) in OpenAirInterface (in C language) core network
- Setup an SDR-based testbed with USRP B210 boards and verified the code with COTS NB-IoT devices

Detect Fake 4G/5G Base Stations at the Application Layer   *Aug. 2021 - Present*
- Analyze the 4G/5G fake base stations in 4G RAN by reading literature and technical reports
- Co-Design an algorithm to define with packet-pair at the application layer without accessing the firmware or infrastructure support
- Implement a relay fake base station in SDR-based testbed with srsLTE

PROFESSIONAL EXPERIENCE

ZS Associates
Strategy Insights & Planning Associate/Associate Consultant   *Jul. 2018 - Oct. 2020*
- Led projects to program Python tools and implement machine learning algorithms for market size estimation, first internal tool to realize automated estimation with improved accuracy
- Developed new business rules and programmed Python tools for sales force alignment, first time to realize automated alignment and get to involve more thorough factors
- Automated data processing with Python/VBA and analyzed large amount real world data via SQL

SKILLS & COURSES

Programming:	Java, Python, MATLAB, SQL, C/C++, Swift, LaTeX, bash
Software:	Tableau, Excel, Word, PowerPoint, Access
Related Courses:	C Programming, Data Structure, Algorithms, Cryptography, Operating System, Software Engineering, Computer Networks, System for Wireless and Mobile, etc.