Ben Yan

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EDUCATION

University of Washington   **September 2015 – June 2019**
 B.S. Aeronautical & Astronautical Engineering (GPA: 3.6)

EXPERIENCE

Staff Consultant – Ernst & Young Technology Advisory Program   **June 2019 – Present**

Software Verification Engineer Intern – Universal Avionics   **June 2018 – September 2018**
- Developed automation tools in C# for Flight Management Systems to cut down manual FAA testing by 60%
- Installed and configured the company's first instance of Jenkins to automate and schedule test stations
- Lead the development of custom pipelines in Groovy for test management, failure detection, and fault reporting
- Managed, communicated, and lead specifications and requirements for UA's new automation framework
- Developed Jenkins plugin to use as an XML ingest webserver, allowing off-site test queueing and automation

Student Researcher – UW Aerospace Laboratory   **September 2017 – April 2018**
- Analyzed and reported on stress test and wind tunnel data in MATLAB/Python (matplotlib, numpy, and pandas)
- Designed and tested 3D printed fiber matrix patterns under torsional and axial loading
- Gauged market for electric aircraft and delivery drones to determine the commercial feasibility of multifunctional aerodynamic structures (pSkin) presented in SAMPE Journal
- Modeled drone fleet growth schedule necessary to service large US metropolitan areas (what-if analysis)

Revenue Analyst Intern – Boeing Commercial Sales and Marketing   **June 2017 – September 2017**
- Analyzed revenue projections for connectivity equipment installations on future commercial aircraft (Pivot Tables)
- Prepared monthly reports to regional director and VP-level core marketing executives
- Worked closely with Infosys teams to implement random forest models analyzing passenger experience
- Used Sabre to gauge regional passenger connectivity growth revenue using logit regression methods
- Automated chart/report making in VBA to cut rework time down by 70%
- Worked with analytics teams to visualize network demand and seating data in Tableau for airline customers

Network Assistant – UW/K20/PNW Gigapop Network Operations   **Jan 2016 – June 2018**
- Managed subnets, DHCP, and multiple brands of network devices (Juniper/HP/Cisco) in bash
- Automated DNS and site maintenance tasks in bash, Java, Python, and Selenium
- Coordinated repairs and network maintenance with ISP and campus customers
- Maintained thorough documentation for campus NAT, network, and circuit diagrams in Visio

Research Assistant – UW Center for Sales and Marketing Strategy   **June 2015 – June 2017**
- Analyzed the impact of hundreds of data breaches on firm's share price performance (lookup functions)
- Analyzed CRM implementation and customer satisfaction metrics on firm performance (web scraping)
- Wrote excerpts, definitions, and case analyses for marketing textbooks

Leadership

Finance Lead - UW Society for Advanced Rocket Propulsion   **September 2017 – June 2019**
- Lead for budgeting, accounting, fundraising, and purchasing for system assemblies on a $30,000 budget
- Team won 30K Hybrid Propulsion Division and International Championship at the Intercollegiate Rocket Engineering Competition (IREC)
- Directly communicated with corporate sponsors to raise funds and assure branding presence
- Managed subteam of 10 students to execute on sponsor relations, marketing events, and creating media content