

Alan Huang

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Experience

- 2022 **Software Engineer II (Contractor)**
Bank of America Plano, TX
 - Developed application components for supporting ML/AI models and data ingestion processes
 - Worked in a fast-paced Agile environment under minimal supervision, with guidance from senior team members
- 2020 **Assistant Database Administrator**
2021 Pacific Architects and Engineers, defense contractor Fort Worth, TX
 - Assisted in debugging and tuning queries, importing and exporting data, and writing stored procedures using Microsoft SQL Server and SQL Server Data Tools.
- Summer **Software Engineer Intern**
2018, 2019 Pacific Architects and Engineers Fort Worth, TX
 - Diagnosed and resolved network issues, including a persistent issue involving Transport Layer Security (TLS) mutual authentication; planned the migration of an application from TLS version 1.0 to TLS 1.2.
- Summer **Software Engineer Intern**
2015 Pilothouse Consulting Arlington, TX
 - Designed and developed training materials for administration of Microsoft SharePoint applications in Microsoft Azure for both internal and external use.

Course Work/Projects

- Oct. 2020 **Fallen London Wiki**
 - Set up and orchestrated a move to a self-hosted MediaWiki instance, running on a LEMP stack.
 - Currently responsible for ongoing systems administration and maintenance.
- Spring 2019 **IntelliChoice**
 - Improved location selection process for an organization that provides tutoring services to underprivileged high school students.
 - Implemented geocoding features by developing database schemas and writing both frontend and backend code using Node.js, Polymer, and Docker containers.
- Mar. 2017 **OpenElections**
Present
 - Developed automated conversion tools to transform PDF, CSV, Excel, and plain text precinct-level election results into a standardized CSV format; used by political scientists and organizations such as the Wall Street Journal and the Financial Times.

Skills

- Languages: Python, PHP, Go, Java, C/C++
- Platforms: Amazon Web Services, Microsoft Azure, Google Cloud Platform
- Technologies: Internet public key infrastructure (SSL/TLS), cryptography, database systems (Microsoft SQL Server, MySQL, MongoDB), Git, Linux systems administration, Nginx, Redis, Elasticsearch, Varnish

Education

- May 2020 **Master of Science in Computer Science, University of Texas at Dallas** GPA 3.85
Received Graduate Certificate in Information Assurance
National Security Agency Graduate Level Designation in Cyber Operations
- May 2019 **Bachelor of Science in Computer Science, University of Texas at Dallas**

U.S. Citizen - Fluent in English and Chinese