

Zhennan Yao

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EDUCATION

- **Virginia Polytechnic Institute and State University** Blacksburg, VA
Master of Science in Computer Science; GPA: 3.81/4.00 Aug. 2019 – Dec. 2020
- **Virginia Polytechnic Institute and State University** Blacksburg, VA
Bachelor of Engineering in Computer Science; GPA: 3.52/4.0 Aug. 2015 – May. 2019
- **Coursework:** Data Structures & Algorithms; Data Analytics; Urban Computing; Databases; Human-Computer Interaction; Software Design; Mobile Software Development; Computer System

EXPERIENCE

- **Virginia Polytechnic Institute and State University** Blacksburg, VA
Teaching Assistant Aug 2019 - Dec 2020
 - Assisting professor in grading assignments, assisting students with assignments and general inquiries.
 - Contributed to the development of course materials.
- **Fun-N-Games Hobby Shoppe** Blacksburg, VA
Software Engineering Team Jan 2019 - May 2020
 - Developed software that allows the employees at Fun-N-Games Hobby Shoppe to manage their inventory of Magic: The Gathering (MTG) cards.

PROJECTS

- **VTQuestAR:**
 - Developed an application that runs on iPhone and iPad for Virginia Tech campus visitors.
 - Incorporated 2D map and augmented reality map for campus navigation.
 - Integrated Core ML and ARKit frameworks allowing users to recognize 122 campus buildings in real-time.
 - Incorporated persistant data storage and retrieval to archive campus building data by Core Data framework.
 - Utilized: Swift, SwiftUI, Core ML, Core Data, ARKit, MapKit, Mapbox, Google Map.
- **Bar Finder:**
 - Developed a responsive website by RESTful services allowing users to share and review bars.
 - Incorporated CRUD with the bars and bars reviews.
 - Integrated user authentication and user permission authorization.
 - Incorporated MongoDB infrastructure to store data of users, bars, and bar reviews.
 - Utilized: JavaScript, Node.js, MongoDB, HTML, CSS, Express.js, Bootstrap.
- **Flight Helper:**
 - Developed an iOS application using Swift that allows users to search flights by IATA airport code.
 - Developed language translation functionality allowing users to translate text and voice using Speech framework.
 - Integrated Face ID and Touch ID biometric authentication in the application.
 - Utilized: Swift, Speech, Storyboards, Face ID, Touch ID.

PROGRAMMING SKILLS

- **Programming/Scripting Languages:** Java, Swift, Python, JavaScript, C, C++, R, TypeScript, PHP
- **Technologies:** HTML, CSS, Bootstrap, Node.js, MongoDB, Git, Express.js
- **Development Software:** Xcode, Eclipse, Anaconda, VS Code, RStudio