TRONG NGUYEN

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EDUCATION

The University of Arizona   Expected Graduation: 05/2023
Bachelor of Science in Computer Science / Data Science and Statistics — GPA: 3.87   *Tucson, AZ*
- Dean's List with Distinction
- Relevant Coursework: Data Structures and Algorithm, Object-Oriented Programming, Operating System Programming, Computer Organization, Database Design, Computer Networking, Software Engineering, Theory of Statistics, Applied Linear Regression Model.

EXPERIENCE

Amazon - Software Development Engineering Intern   May 2022 – August 2022
Amazon Music Gateway Team   *Seattle, WA*
- Designed and implemented Music Skill Kit Conversation Prototype in Alexa.
- Utilized different APIs to prove the viability of the Conversation Skill for Amazon Music in Alexa.
- Proposed different possible problems and solutions to reduce 80% latency of Alexa current interaction.
- Utilized different cloud services on AWS to develop Alexa skill prototype.

The University of Arizona - Computer Science/Math Department   August 2020 – present
Undergraduate Teaching Assistant   *Tucson, AZ*
- Enhanced the exam result of students by 70% compares to recent years.
- Structured and planned the lectures/exercises for nearly 3000 students every week.
- Adapting quickly to various solutions in solving problems and proposing the most efficient result.

PROJECTS

Flushy Project - Finding the nearest restrooms   January - 2020
Java, Python, Android Studio, Adobe Photoshop, Google APIs   *Tucson, AZ*
- Utilized the platform APIs by Google to determine the nearest bathroom within the university.
- Allowed users to view the quality and feedback of the restroom in the interface.
- Saved 80% of total time wasting on finding the bathroom.

UofA Campus Health Simulation   April - 2022
Java, SQL   *Tucson, AZ*
- Built an application to simulate the Campus Health system at The University of Arizona.
- Allowed multiple users, staff to schedule different types of appointments with specific treatments and the authorized users can manage/operate the database of the system.
- Illustrated and designed an outstanding example of Database Management System in third normal form and Boyce–Codd normal form.

Podcast Player   2021
Java, JavaFx   *Tucson, AZ*
- Designed a GUI interface with interesting features and interactions for the users.
- Resolved the users' demands to download, manage, and play the podcasts.
- Supplied the users with the ability to playback speed, skip to their favorite parts, and save the current pause.

Modeling the Severity of COVID-19 patient by protein levels ∗Paper   2022
RStudio, Python   *Tucson, AZ*
- Assembled, audited, and transformed data of nearly 500 patients with over 5200 proteins.
- Built and evaluated different linear regression models with predictors set to filter the most important proteins.
- Analyzed and contemplate the effects of the most significant proteins with related context and proofs from other resources.

AWARDS / EXTRACURRICULAR

Hack Arizona 2020 best beginners hack   Spring 2020
Hackathon Arizona   *Tucson - AZ*
- Competed with nearly 100 other groups in the competition.
- Presented the project to nearly 50 companies visiting the bootcamp.
- Efficiently communicated and worked consecutively under pressure to finish the project.

TECHNICAL SKILLS

Languages: Python, Java, C, C++
Familiar with: SQL, Assembly(MIPS), R, Haskell, Ruby, HTML/CSS, ML, JavaScript, Prolog, JSON
Tools: AWS, AWS S3, AWS CloudFormation, AWS Lambda, Git, GitHub, Latex, Adobe Photoshop, Unix/Linux