KIEN TO TRUNG

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EDUCATION

University of Massachusetts-Amherst, *BS in Computer Science*   *Graduation: 2024*
- **Coursework**: Machine Learning, Computer Systems Principles, Software Engineering.   **GPA**: 4.0/4.0

SKILLS

Proficient: Python, Java, React, React Native, REST, GraphQl | **Familiar:** AWS, C#, C++, Unity, MongoDB, Solidity.

EMPLOYMENT

TechFarm Holding, *Sofware Engineer Intern*   *05/2022 – 09/2022*
- Created **[Decentralized VR website](#)** where users can **build, view, own and publish virtual reality landscapes** with 200+ 3D items (NFTs, trees…) from Decentraland API. Used ReactDnD to enable drag-and-drop editing, WebGL and Unity for preview in 3D, and Web3Js for wallet authorization. Boosted traffic by over 30% for parent website.
- Bootstrapped codebase of Tokenplay project with **Redux, Python, ReactJs**. Built **[DappNews,](#)** contributed to **[DappPortal](#)**, and created authentication page with SSO Json Webtoken. Website **received 200,000+ visits/month**.
- Coded 30+ reusable components. Reduced load time, memory usage and latency of 2 websites by 20% by refactoring for lazy loading & optimizing API calls. Extensively tested and overhaul portions of UI to address user complaints.
- Deployed Tokenplay website with **Cyberduck**, **NVM, nginx** & integrated REST API from **Strapi CMS** using **Axios**.

UMass Amherst

Digital Media Lab, *Technical Assistant*   *09/2021 – present*
- Developed a **smoking habit tracker website** that processed **1000+ datapoints** from smokers on their day-to-days and present summary statistics like smoking frequency or mood level for use in research using **React, Python**, SQL.
- Creating an Augmented Reality Direction App in **React Native** and **Unity Foundation** for UMass Library (80%).

Human Computer Interaction Lab, *Research Assistant*   *12/2021 – 05/2022*
- Collaborated with 3 graduate students on **Python & ReactJs** community sourcing app that create augmented meeting transcripts capturing real-time feedbacks from audio of vocal attendees and texts or polls from reticent attendees with analysis. **Enhanced inclusive engagement by 35%** in 66 town hall meetings. The research was published on ACM.

BUILD UMass, *Software Developer*   *12/2021 – 05/2022*
- Worked on **[interactive policy map](#)** using **React, Python** for ActOnMass, visited by thousands of Mass constituents.

SciQuel (Harvard Medical School startup)*, Software Engineer Intern*   *05/2021 – 09/2021*
- **Co-Led** a team of 8 developers to create the database & back end from scratch using **Python, MongoDB, GraphQl**.
- **Developed** the author's page, news page, and 5+ other reusable front-end components using **NextJs.**

PROJECTS

[Tweet-stock ML predictor](#)   *Python, NextJs, Neural Networks, REST*
- Trained Neural Network to predict stock prices in 3-month timeframe using Twitter Sentiment analysis & Past stock prices for 30 top stocks in the U.S. Yield 81% accuracy for next-day prediction, 60% accuracy for 1 month prediction.
- Designed and deployed RESTful backend server enabling stock data to be stored persistently in an online database.

[Augmented Reality Social Commerce Mobile App](#)   *React Native, AWS, Unity, GraphQl, DynamoDB*
- Built Authentication, Shoppping Cart, Review, and Stripe-integrated payment with AWS Amplify and DynamoDB.
- Implemented Direct Messaging and Product Listing through custom cognito lambda trigger.
- Integrated **Augmented Reality try-ons** using combination of **expo-three** and **Unity.**

[2048 AI Game](#) - Created 2048 AI bot using Expectimax algorithm with ~97% accuracy.   *Python, ReactJs*

[NFT Minter](#) – Pay Ethereum to mint thousands of NFTs tailored to input names.   *Solidity, Truffle, Web3Js*

[3D Personal Porfolio](#)   *Enabled3D, ThreeJs, AmmoJs*

LEADERSHIP AND AWARDS

British American Tobbaco Hackathon (2021)*,* Ranked *2nd/400* & won 5000$. Led team of 4 to design a mobile app that connect trash pickers with user groups, optimized with graph-based algorithm based on distance and group needs.

United Nations EPPIC (2020)*,* Raised 12,500$. Designed mobile app and led the technical pitching for startup **[mGreen](#)**.