

# DAT DO

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## COMPETENCIES

**Programming Languages:** JavaScript, Kotlin, GraphQL, Python, Java, SQL, NoSQL  
**Frameworks:** React/React Native, NodeJS, Terraform, AWS Amplify, ElasticStack, Docker/Helm/Kubernetes, Nginx  
**Technologies:** AWS, Azure, Bluetooth/BLE, DialogFlow, Arduino/Raspberry Pi, MQTT  
**Tools:** Git, Agile/Scrum, Cloud/Software Architecture, CI/CD Infrastructure  
**Languages:** English, Vietnamese

## EXPERIENCE

**Software Development Engineer 2** | *Amazon.com* New York, NY | 01/2021 - Present

- Design and implement an automation pipeline for seller store provisioning, integrating directly with over 20 services across Amazon Retail software stack
- Lead the effort to manage and organize team's internal knowledge management consist of over 200 documents in various stages
- Maintain operational excellence through creating detailed debugging mechanism, enable faster resolve rate by a factor of 2 for medium to high severity issues raised in testing and production
- Deployed a scalable system in North America region that can process over 150,000 shipment status message per second with near real-time response

**Software Engineer** | *Shell Techworks* Cambridge, MA | 12/2018 - 01/2021

- Delivered 7 specialized prototype systems to site assets and end clients, implementing with various cutting-edge technologies related to Artificial Intelligence, IoT and Modern Software Architecture
- Utilized cloud infrastructure to enable highly available software products in global scale with intensive computation demands
- Collaborated with Design Engineers to unify over 50 React UI components across multiple projects and solutions via Storybook
- Introduced proper documentation, atomic commits, CI/CD automation, and versioning to maintain consistent developer standards and guidelines
- Brought 2 software products from ideation to production within less than 2 years of development

## RESEARCH & SIDE PROJECTS

**Remote Controlled Vehicle VR Simulation** | *TBD* 08/2020 - Present  
Re-program RC Car and stream wireless video feeds to a VR headset with <100ms latency

**Open Source Portfolio Showcase** | *docs.datbdo.com* 01/2020 - Present  
Full-stack application with configurable contents. *Built with React, AWS Amplify, Github Actions*

**MIRA** | *github.com/bdatdo0601/MIRA* 06/2017 - Present  
Home automation system with smart mirrors, lights, and sensors. *Built with Raspberry Pi, Python*

**Connected Vehicles Stopping Sight Distance Analysis** | *Research Paper* 05/2018 - 09/2018  
Investigate AI-enabled system capability on avoiding collisions. *Presented at MIT URTC 2018*

## EDUCATION

**B.S. Computer Science** | *Wentworth Institute of Technology* Boston, MA | 08/2015 - 08/2018  
*Minors: Applied Mathematics & Computer Networking* GPA: 3.7/4.0

## AWARDS & AFFILIATIONS

**Annual Achievement Award** | *Shell TechWorks* Standout Performance (Top 5%) | 2020  
**Founder/Head of Organizers** | *HackWITUs* 2016 - 2017  
**Chapter Chair** | *Association for Computing Machinery (CSS@WIT)* 2016 - 2017