Zeeshan Ahmed

 \Box +1-(718)-690-1974 ☑ zahmed@vidiumah.com Szshanahmed.github.io zshanahmed in zshanahmed

Education

2020-2021 Master of Computer Science, The University of Iowa

Focus Areas: Software Engineering, Data Science, Machine Learning, Algorithms

2013-2017 B.S. in Electrical Engineering, University of Engineering & Technology, Pakistan

Focus Areas: Operating Systems, Databases, Computer Networks, Data Structures

Skills & Expertise

Programming Python, SQL, Apex, Javascript, React/Node.js, C++, Java, HTML/CSS

Languages

Web Django, MERN Stack, Ruby on Rails, Visualforce

Development

Frameworks Agile, Git, CI/CD, AWS, MongoDB, Salesforce

Professional Experience

01/03/2022- Software Engineer

present Vidium Animal Health, A TGen Subsidiary

7201 E Henkel Way, Suite 210 Scottsdale, AZ 85255

- o Development and maintenance of VariantDB, a genetic mutation database for canine cancer research, including the front-end interface for user interaction
- o Design and development of *Deermouse*, an inter-species protein alignment tool, reducing reporting time by 25%
- o Automating Salesforce order workflow and its integration with an external Lab Information System for efficient order management and tracking

05/01/2021- Web Developer

12/17/2021 IIHR, The University of Iowa

Maxwell Stanley Hydraulics Laboratory, 100 C, Iowa City, IA 52242

- Developed a JavaScript library for Water Information System, improving the codebase with modular components for map, UI panels, and core services.
- o Optimized Iowa Flood Information System performance by implementing service workers to cache assets and enable offline capability, reducing page load-time by 20%.

Projects

Spring 21' **Science Alliance Portal**

App / Code

- Developed a web application to facilitate Iowa Bioscience Academy in recruiting/managing members of the Science Alliance program
- o Developed an event management system using JavaScript to invite/signup members for the events
- Designed and developed Login/Signup and front-end UI of the landing page and dashboard
- o <u>Utilized</u>: Django, JavaScript, postgreSQL, Boostrap, Github Actions, Microsoft Azure

Spring 21' Disaster Assistance Management System

Code

- Developed a request-response based Web Application to help people manage resources in disasters
- Worked on Login/Signup, request creation and UI/UX Design
- o Utilized: MySQL, Express, React, Nodejs

Fall 20' Online Card Trading Game

App / Code

- o Developed a Web-based multiplayer game, that allows friends/family to play card games based on their own
- Developed a session sharing mechanism allowing users to invite/join games in separate rooms
- Implemented third party authentication using OAuth to streamline login/signup process
- <u>Utilized</u>: Ruby on Rails, JavaScript, postgreSQL, Heroku

Publications

NDSS PHOENIX: Device-Centric Cellular Network Protocol Monitoring using Runtime Verification Mitziu Echeverria, Zeeshan Ahmed, Bincheng Wang, M. Fareed Arif, Syed Rafiul Hussain, Omar Chowdhury Network and Distributed System Security Symposium (NDSS), Virtual, 2021