Zeeshan Ahmed

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Education

2020-2022	**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 Languages	Python, SQL, Apex, Javascript, React/Node.js, C++, Java, HTML/CSS
Web Development	Django, MERN Stack, Ruby on Rails, Visualforce
Frameworks	Agile, Git, CI/CD, AWS, MongoDB, Salesforce

Professional Experience

01/03/2022– present — **Software Engineer**
Vidium Animal Health, A TGen Subsidiary
7201 E Henkel Way, Suite 210 Scottsdale, AZ 85255
- Development and maintenance of *VariantDB*, a genetic mutation database for canine cancer research, including the front-end interface for user interaction
- Design and development of *Deermouse*, an inter-species protein alignment tool, reducing reporting time by 25%
- Automating Salesforce order workflow and its integration with an external Lab Information System for efficient order management and tracking

05/01/2021– 12/17/2021 — **Web Developer**
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.
- 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
- 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
- Utilized: 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
- Utilized: MySQL, Express, React, Nodejs

Fall 20' — **Online Card Trading Game** — App / Code
- Developed a Web-based multiplayer game, that allows friends/family to play card games based on their own rules
- 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
- Utilized: 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