

Apurva Patel

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OBJECTIVE

Actively looking for full time opportunity in the field of Software Engineering and Machine Learning

EXPERIENCE

Nurocor, Inc

Austin, TX

Software Engineer (Remote)

August 2020 – Present

- Lead in development, testing and implementation of small to mid-size clinical software
- Discuss Sprint planning and retrospective with software engineering team
- Develop clinical software to optimize, represents and process clinical data
- Develop ETL tool to help professional service team to analyze data more effective.
- Leading researcher and developer for Machine Learning projects
- Design Machine Learning Infrastructure for upcoming projects
- Research and implement Machine Learning approaches in Clinical Studies
- Coordinate with DevOps team during Dev release, QA release, and Production release
- Technologies include: Atlassian Products, Quarkus (Java), Python, CI/CD (Jenkins, SonarQube), NodeJS, Unit Testing (JUnit), Kubernetes, Docker, Kubeflow, Tensorflow, Database (PostgreSQL, ArangoDB, ElasticSearch), Kibana, GraphQL, RESTApi

Iowa State University – College of Engineering

Ames, IA

Graduate Research Assistant

August 2020 - May 2021

- Research potential vulnerability in physical Internet of Things such as smart camera, smart plug and smart audio system.
- Collaborated with a team of undergrad to carry out any potential vulnerability found during the research
- Setup up Cyber Infrastructure for students to utilize it
- Implement Cyber Infrastructure with virtual image of IoTs that includes potential vulnerability. This infrastructure is then used for Iowa State University Cyber Defense Competition
- Document research and potential steps to mitigate the vulnerability

Nurocor, Inc

Austin, TX

Software Engineer Intern (Remote)

May 2019 – August 2020

- Develop Clinical application using Quarkus Java Framework
- Implement Unit Test, Continuous Integration and Development steps, reporting any potential bugs in dependent applications
- Coordinate with team members in code review process, and educate team on Quarkus Java Framework
- Familiarize with Clinical Protocols, Clinical Data Representations and Extraction process, Clinical Metadata Repository Software

Iowa State University – College of Engineering

Ames, IA

Undergraduate Teaching Assistant

January 2020 – May 2020

- Teaching assistant for Software Architecture and Design
- Conduct Lab and office hours virtually and in-person, grade assignment, exams, and quiz
- Regulate class discussion board
- Implement Machine Learning module on EEG Brain module to regulate smart Devices

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Farm Bureau Financial Services

West Des Moines, IA

Mobile Application Developer Intern

September 2018 – December 2018

- Develop mobile application that represents the company's insurance functionality resulted in saving \$200,000 annually and performs financial claims 30% faster
- Implement online payment and active emergence calling system availability
- Technologies included: Swift, SVN, Ionic framework, .NET

Iowa State University – College of Human Science

Ames, IA

Student Web Developer and Linux Administrator

October 2017 – January 2019

- Develop, design and main college of human science website (hs.iastate.edu) and its child websites
- Develop plugins that simplifies the usability, availability, and scalability of the websites
- Responsible for installation and configuration of machines with different purposes having services like MySQL, DHCP, DNS, NTP, SMTP, Moodle

EDUCATION

Iowa State University

Ames, IA

Software Engineering: Bachelor of Science (G.P.A – 3.51)

August 2016 - May 2020

Cyber Security: Minor (G.P.A – 3.81)

August 2016 – May 2020

Computer Science and Cyber Security: Master of Science

August 2020 – May 2020 (Current)

(Focus: Artificial Intelligence and Networking) (G.P.A – 3.50)

ACTIVITIES

Collins Aerospace Capstone Project

Cedar Rapids, IA

Artificial Intelligence for Requirement Analysis Tools

August 2019 – December 2019

- Research on Machine learning approaches to classify aerospace modules requirements
- Implement Natural Language Processing Module for preprocessing of the data
- Implement Word2Vec, Swarm intelligence for domain requirement
- Document research, project planning and system architecture and design implementation
- Reference: <https://sddec19-08.sd.ece.iastate.edu/>

Cyber Defense Competition

Ames, IA

Iowa State University

Fall 2017, Fall 2018

SKILLS AND CERTIFICATION

- MLOps (Machine Learning Operations) Fundamentals [coursera.org/verify/HDVC6LGHFN6F]
- ArangoDB Certified Professional [Certification #: CLRVBVQSY-KVQZHJVH-XSWXYWPXXP]
- AI Series: Introduction to Clinical Data [coursera.org/verify/R3JT4ZGURA3F]
- Introduction to Tensorflow for A.I, M.L and D.L [coursera.org/verify/KP9LXFCTNXU3]
- Natural Language Processing with Classification and Vector Spaces (In Progress)
- Artificial Intelligence in Marketing (In Progress)