Vee Upatising

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WORK EXPERIENCE

Rochester Electronics – Newburyport, MA
Automation Software Engineer Sept 2020 - Present

- Developed C# WPF application that automates the generation of Assembly Drawing Reports and Laser Engraving templates
- Engineered Python application that calculates historical yield for all products and their specification tests
- Networked semiconductor factory equipment using SECS/GEM protocol and Process Automation Controller software

AI Exploration – Istanbul, Turkey
Deep Learning Researcher Oct 2020 - Present

- Performed freelance Machine Learning Research involving Deep Neural Networks and Generative Adversarial Networks
- Published article about creating datasets, training, and developing GANS for image generation using Python
- Published article about performing binary image classification using CNNs and MRI scans using Keras

Workera – Palo Alto, CA
Software Engineering Test Developer June 2020 - Sept 2020

- Developed standardized tests for Artificial Intelligence, Software Engineering, and Algorithmic Coding skills
- Performed quantitative analysis on test questions using test taker data

Fast Enterprises, LLC – Salt Lake City, UT
Implementation Consultant Intern May 2019 - Aug 2019

- Developed software for the Vehicle and Dealer Registration System used by all DMV offices in Utah
- Performed Unit, Integration, and End-to-End testing within the VADRS program
- Managed databases and optimized queries using SQL in Microsoft SQL Server Management Studio
- Performed QA testing to fix critical production errors in a waterfall software development cycle
- Developed front end customer-facing web portal using VB.NET in Visual Studio

EDUCATION

University of Massachusetts Amherst May 2020
Bachelor of Science in Computer Engineering, GPA 3.18

PROJECTS

Interactive Generative Adversarial Network

- Developed an interactive JavaScript web application that generates animated faces using Convolutional Neural Networks
- Designed Generative Adversarial Network architecture using Keras and TensorFlow in Python

Real Time Virtual Background

- Created a JavaScript application that implements a virtual background from a live webcam feed without needing green screen
- Implemented a feature that allows users to upload their own images for virtual background

CERTIFICATES

Process Automation Controller – ZNT-Richter Nov 2020

Data Scientist – Workera.ai June 2020

Software Engineering – TestDome June 2020

TECHNICAL SKILLS

Python, C#, SQL, Java, C, UNIX, Pandas, Scikit-Learn, NumPy, TensorFlow, Keras, WPF Application Development, SECS/GEM, MATLAB, HTML5, CSS3, JavaScript, Node.js, Express.js, React.js, VB.NET