

Dawson Geist

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SUMMARY

Passionate software developer committed to creating innovative products. Thrives in dynamic and collaborative environments. Leverages problem-solving abilities to design and develop software products that meet and exceed user expectations. Dedicated to continuous learning and staying up to date with industry trends.

EDUCATION and TRAINING

Master of Science in Computer Science (In Progress),

University at Albany, SUNY College of Nanotechnology, Science, and Engineering, 05/2023-Present

Courses include: Operating Systems, Data Mining, Machine Learning, Analysis and Design of Algorithms and Data Structures, Software Engineering

Bachelor of Science in Computer Science with a Minor in Mathematics,

University at Albany SUNY College of Engineering and Applied Sciences, Albany, NY, 05/2021

Courses included: Analysis and Design of Algorithms and Data Structures, Programming at the Hardware Software Interface, Assembly Computer Organization, Cryptography, Linear Algebra, Calculus 1+2+3, Probability and Statistics for Engineers, Data Mining

SKILLS

Programming Languages: C, C#, Java, Python, Javascript, SQL

Packages: Valgrind, React-Native, Dlib, OpenCV, DeepFace, Keras, NumPY, Matplotlib, SciPy, SciKit_learn, Pyautogui

Software: Unity, AWS Amplify, AWS Cognito, AWS Lambda, AWS APIGateway, AWS RDS, AWS IAM Identity Center, AWS CodeCommit, Git, IBM Clearcase, DiffMerge, Word, Excel, Outlook,

Business: Customer Service, Business Communications, Teamwork, Collaboration, Project Management, Agile Development Methodology

EXPERIENCE

Engineering Teaching Assistant, University at Albany, Albany, NY, 01/2023-05/2023

- Assisted with the grading work for the Undergraduate Computer Science Capstone Project (ICSI 499) and the Cryptography course (ICSI 426/526)
- Reviewed and provided feedback on technical documentation, critiqued milestone presentations, challenged students on system design and tech stack decisions
- Graded Homework on topics including classical cryptography, modular arithmetic, and number theory concepts relevant to cryptography, modern block and stream ciphers, public key cryptography, hash functions, digital signatures, secret sharing, and steganography

Software Engineer, Quality Vision International (QVI), 06/2021-04/2022

- Designed new processes, debugging and refactoring existing code for metrology software adaptable to entire catalog of Metrology Machines as a member of software team

- Led the development of an extendable framework for exporting configuration files between machines
- Source code was written in C#

Sales Associate, Best Buy, Albany, NY, 06/2018-03/2019

- Provided custom solutions for customers, worked closely with Team Leaders for employee training on selling points and technical knowledge for individual components inside of technology products
- Generated over \$750,000 of revenue for Best Buy Products and Geek Squad Services

SOFTWARE PROJECTS

Growth - Individual Project - 05/2023-07/2023

Novel journaling app designed to give users understanding of their mental health by collecting and analyzing information about a user's mood and their daily water, nutrition, and exercise.

Authenticated users can create journal entries with the option of attaching an emotion to each note.

Entries are organized chronologically for easy retrieval and modification of existing entries.

Future work includes development of an analysis and reporting page where machine learning algorithms provide users with comprehension of their emotions in addition to summary reporting for intuitive recognition of tendencies over different lengths of time.

Emojify, Emotion Prediction based on Facial Landmark Detection – Team of 4, 01/2023-05/2023

Conducted a survey of different Machine Learning algorithms in the context of Emotion detection based on extracted features from facial landmarks. Models include SVM, Random Forest, LightGBM, AdaBoosting, Convolutional Neural Networks

LEADERSHIP AND VOLUNTEER EXPERIENCE

Boys & Girls Clubs of America – Volunteer Teacher, 04/2018-06/2018

Fulfilled the role of a Computer Science Teacher for an After School program for 5th graders in the Albany district. Taught computer science concepts with heavy emphasis on logic, critical thinking, and basic algorithmic processes.