Andrew Coates

Software Engineer with a diverse range of experience across the Cloud, Web Development, and Machine Learning. I take pride in my work ethic and in being a pleasure to work with.

PROFESSIONAL EXPERIENCE

Inmar Intelligence – Winston Salem, NC   **Jun 2021 – Nov 2022**
Software Engineer
- Migrated legacy systems to GCP. Cloud Storage, BigQuery, BigTable, Cloud Run, Cloud Functions, Cloud Scheduler, and more were used to facilitate this.
- Maintained a variety of legacy systems including .NET websites/APIs, MSSQL servers, and UC4 job schedules.
- Created Terraform manifests, automated via azure pipelines, to create all cloud resources, permissions, and more. In addition, created wiki documents to aid further development.
- Worked in an Agile environment with daily standups, 2-week sprints, retros, planning, and ceremonies.
- Supported nightly ETL while on-call and managed our support ticket boards.

Bee Informed Partnership – Boone, NC   **May 2019 – Sep 2019**
Research Assistant Intern
- Programmed in Django fixing bugs, integrating new features and data, and refactoring previous student's code.

TECHNICAL SKILLS
- Languages: C#, Python, HTML, CSS, JavaScript, SQL, Terraform
- Operating Systems: Windows, Linux
- Technologies: GCP, Git, Docker, Azure Devops
- Frameworks: .NET 6, React, OpenCV, TensorFlow
- Github: https://github.com/digitalpanda213

PROJECTS

Exploding Kittens RL   **May 2021**
- Used Reinforcement Learning to create an AI capable of playing the Exploding Kittens board game with better than human performance. Voted best project of the class.
- Work in a pair with Kyle Fleskes for our senior seminar class
- Key Technologies: Python, JS, RL, Neural Networks, Tensorflow, Keras, and Pandas

Photomosaic Generator   **Dec 2020**
- Developed a photomosaic generator that can create detailed mosaics at low resolution using image similarity search techniques.
- Key Technologies: Python, OCR, Numpy, Scikit-learn, and Matplotlib

EDUCATION

Appalachian State University – Boone, NC   **May 2021**
B.S. in Computer Science, minor in Japanese Language
- GPA: 3.3
- Computer Science Club Secretary 2018 – 2019. Co-coordinated a Hack-a-thon with over 200 attendants.
- Studied abroad at Okayama Daigaku, Japan, Sep 2019 – Mar 2020