Matthew Coming

Austin, Texas

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EDUCATION

Texas A&M, College of Engineering   College Station, Texas
Bachelor of Science in Computer Science; GPA: 3.7   *Aug 2017 – May 2021*
Minor in CyberSecurity

SKILLS

- **Languages**: Python, C++, Javascript, C#
- **Software**: Docker, VMWare, VirtualBox, OpenShift
- **Collaboration**: Git, Jira, Confluence, Agile Software Development
- **IDEs**: Visual Studio, Apple XCode, Jupyter Notebook, Colab
- **Operating Systems and Technologies**: Linux, Cloudfront, Elastic Beanstalk, S3, Route 53

EMPLOYMENT HISTORY

- **Emergent Space Technologies**   Austin, Texas
  Software Engineer   *June 2021 – Present*
  - Built stateless microservices, deployed in a RedHat OpenShift environment, to aid Space Domain Awareness operations.
  - **Microservice Design**: Designed and implemented docker images, message serialization, deserialization, and validation to communicate across a pub/sub message bus.
  - **GMAT**: Automated orbit determination, propagation, and satellite visibility calculations using NASA GMAT.
  - **Python**: Made extensive use of python 3.7+ packaging, Metaclasses, custom annotations, multiple inheritance, and polymorphism.

- **L3Harris Technologies**   Mission Integration Division, Greenville, Texas
  Co–op Software Engineer   *3 terms, 11 Months*
  - Member of a team responsible for maintaining, refactoring, developing, and documenting software for the internal research and development of intelligence and reconnaissance systems, primarily mission management software.
  - **JavaScript and React**: Designed and wrote ReactJS UI components that communicated with a backend message bus through Google Protobuf messages.
  - **C# and WinForms**: Designed and wrote application code to expand the capabilities of L3Harris ViewPoint HD.
  - **Security**: Used Fortify static code analysis to triage and fix security defects in a legacy code base.
  - **GIS**: Worked extensively with CesiumJS, an open source JavaScript library for creating 3D globes and maps, and ESRI ArcMap.

PROJECTS AND INTERESTS

- **OpenGL, ThreeJS**: Pursuing the creation of algorithmic art and animation in shader languages.
- **AWS**: Experimenting with different Amazon Web Services for small projects. Hosting MatthewComing.com using S3, Cloudfront, and Route 53.
- **Relevant Coursework**: Software Engineering, Software Security, Computer Graphics, Operating Systems, Machine Learning, Artificial Intelligence

ORGANIZATIONS AND CLUBS

- *TAMU AutoDrive Challenge Team - Member*   *Spring 2021*
  - Real-time HD Map Verification – Using the Robot Operating System(ROS), React, CesiumJS, and Electron, this team created a system that allows a user to verify the correctness of a high definition map during the maneuvering of a self-driving car.

- *TAMU CyberSecurity Club - Member*   *Fall 2018, Spring 2019*
- *TAMU BUILD - Student Supervisor*   *Fall 2018, Spring 2019*
  - BUILD is a student run organization at Texas A&M University that transforms shipping containers into medical clinics and classrooms that are sent all around the world. The role of a Student Supervisor is to guide the work and oversee the safety of the hundreds of volunteers each semester.

Honors and Certification

- *Texas A&M University Dean's Honor Award*   *Fall 2017, Fall 2018, Spring 2020*
- *Texas A&M University Distinguished Student Award*   *Spring 2018, Spring 2019*