

# Timothy Lanzi

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## SPECIAL SKILLS

- Full stack development with React.js, Node.js, & Typescript
  - Back-end database development including MongoDB and Microsoft SQL Server
  - Git configuration management and application deployment
  - General web development including HTML, CSS, Less, SCSS, JavaScript, jQuery, Webpack, Nginx, PM2
  - Tensorflow / Keras / Machine Learning
  - Jupyter Notebook
  - Proficient in C, C++, Java, JavaScript, Bash, and Python
  - Linux OS systems programming
  - Docker app configuration and deployment
  - Arduino/Atmel AVR programming
  - Systems software with POSIX API
  - High performance computing with MPI
  - Advanced mathematical problem-solving
  - Understanding of computer architecture
  - GIS software such as QGIS, ArcMap, and ArcCatalog
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## SPECIAL PROJECTS

- Implemented a neural network using transfer learning that identifies ground control points in aerial photographs (Undergraduate Research)
  - Performed photogrammetric processing of aerial images in support of the characterization of the evolution of a salt marsh (Undergraduate Research)
  - Built and configured a High Performance cluster
  - Built a Web Application that assesses student ability and recommends resources using a machine learning algorithm
  - Created a line-of-business database with a web interface
  - Built multiple high performance gaming computers
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## EDUCATION

### Bachelor of Science in Computer Science | Salisbury University

**August 2015 – December 2018    Magna Cum Laude**

Minor: Mathematics

Overall GPA: 3.896/4.0    Computer Science GPA: 3.946/4.0

Member Phi Eta Sigma National Freshman Honor Society: September 2016

Member Phi Kappa Phi Honor Society: April 2018

Dean's List designation- all semesters

## **WORK EXPERIENCE**

### **GIS Programmer II | Eastern Shore Regional GIS Cooperative**

**January 2019 – present**

Develop, maintain, and expand upon several full-stack projects for ESRGC using various web-based technologies:

- Lead Nursing Forward Initiative website
- Delmarva Index website
- Shore Transit Dashboard
- MustBus website
- Mid-Shore Regional Council website

All projects entail regular communication with team members and clients.

Perform website deployment/rollouts with Nginx, PM2, & Docker.

Conduct software infrastructure upgrades on Linux and Microsoft servers.

Use QGIS, ArcMap, and ArcCatalog to update the Critical Area Mapping Project interactive web map

### **Intern | Eastern Shore Regional GIS Cooperative**

**November 2018- December 2018**

Maintained and expanded upon the Lead Nursing Forward Initiative website, a full-stack web-based project that used React.js, Node.js, Less, Handlebars, and Webpack. This also required regular communication with the client team and colleagues.

### **Supplemental Instructor | Salisbury University**

**August 2018 - December 2018**

Assisted students by planning and facilitating thrice weekly group study sessions and assisted students one-on-one during weekly laboratories.

### **Team Leader | Chick Fil-A**

**September 2014 – August 2018**

Promoted to Team Leader August 2015. Responsibilities included: training new employees in several positions, directing shifts, customer service, and general upkeep of the store.