

# Tony Lockhart

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GitHub: <https://github.com/tlockhart>

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Portfolio: <https://tlockhart.github.io/portfolio>

Full Stack Developer and Machine Learning Enthusiast with a proven track record of creating innovative learning solutions and integrating advanced technologies. Holds a B.S. in Computer Science and M.S. in Digital Media. Skilled in AI-driven solutions, data analysis with Python, and front-end development using TypeScript, JavaScript, and the MERN stack (MongoDB, Express, React, Node.js).

## Technical Skills:

- *Frontend:* Type/JavaScript, React.Js, jQuery, CSS3, HTML5, Bootstrap 5, Redux
- *Backend:* Node.Js, Express, MongoDB, MySQL
- *AI/ML:* Python, Pandas
- *Tools & Other:* Git, GitHub, Unix, Docker, Figma, Adobe Creative Suite, Firebase

## SELECTED PROJECTS

### Conversation AI Language Learning Application | [GitLab](#) | [Live](#)

- Built AI-powered language assessment tool using OpenAI Whisper Service
- Implemented natural language processing for real-time proficiency evaluation
- **Tech Stack:** JavaScript, React.js, Redux, SASS, OpenAI, Whisper Service, Firebase

### Teaching Pal AI Lesson Planner | [GitLab](#) | [Live](#)

- Developed AI-powered lesson plan generator customized for diverse student needs
- Implemented dynamic form system for grade level, ESL, special education requirements
- **Tech Stack:** JavaScript, React.js, Redux, SASS

### Mondly Placement Test Platform | [GitLab](#) | [Live](#)

- Designed and built adaptive placement testing system to identify user's English language proficiency
- Developed entry assessment system to initiate Mondly Language Learning sessions
- **Tech Stack:** JavaScript, React.js

## RELEVANT EXPERIENCE

### Pearson Education, Atlanta, GA

*Creative Technologist*, 2021 - Present

- Led development of multiple learning technology initiatives.
- Created interactive prototypes and flows for immersive learning platforms.
- Developed routing and components for the Endeavor prototyping management platform.
- Endeavor Microsoft Single Sign On (SSO) integration, with D3 lazy loading org chart.

**Levvel, Atlanta, GA**

*Engineering Consultant, 2021 – 2021*

- Enhanced the Lineage Automated Warehouse Management System's Dynamic Dashboard.
- Extraction, integration, and migration of legacy applications into the modern WMS platform.

**High Tide Technologies, Atlanta, GA**

*Junior Full Stack Developer, 2019 - 2021*

- Developed D3 class representations of Scada devices for dashboard display
- Created dashboard element trigger forms and device reading reports
- Enhanced JSON Web Token (JWT) authentication, with password reset
- Refactored application controller to validate and respond to SMS commands
- Performed Unit and Acceptance testing in RSpec and QUnit
- Development and testing in docker containers, with AWS DynamoDB and MySQL

**General Dynamics, Atlanta, GA**

*Systems Engineer, 2011 - 2019*

- Developed Alert Logic/BitDefender batch installation scripts for WTCHP environments
- Developed PowerShell installation and report generation scripts for DISA Security Technical Implementation Guides (STIGs) security compliance check
- Developed Microsoft (MS) Active Directory security reports Java translation scripts
- Created Groovy data validation scripts for claims payment processing

**Georgia Gwinnett College, Lawrenceville, GA**

*Digital Media Professor, 2012 - 2014*

- Digital Media (ITEC2110): Provided classroom instruction in graphic design, audio/video editing, and 2D and 3D animation
- Introduction to Computing (ITEC1001): Provided classroom instruction on computer evolution, ethics, security, networking, hardware and software design

**Georgia Institute of Technology, Atlanta, GA**

*Graduate Research Assistant, 2009 - 2011*

- Provided 3D models, application integration, revision control, and user testing for the Interactive Toolkit for Engineering Learning's (InTEL) online practice environment
- Developed design templates, wireframes, and mockups to provide website consistency

**EDUCATION**

**Georgia Institute of Technology, Atlanta, GA**

*Georgia Tech Coding Bootcamp - JavaScript Full Stack Web Development Certificate*

An intensive 24-week long boot camp dedicated to designing and building web applications.

**Georgia Institute of Technology, Atlanta, GA**

*Masters of Science Digital Media*

Conducted graduate-level research in increasing motivation in intelligent tutoring systems.

**Alabama A&M University, Normal, AL**

*Bachelor of Science Computer Science*