**Tony Lockhart**

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

LinkedIn: <https://www.linkedin.com/in/tony-lockhart>

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](https://gitlab.com/pearson-ct/pte-a) | [Live](https://chat-ai-pvr3.onrender.com/)

* 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](https://gitlab.com/pearson-ct/static-prototypes/mondly-placement-test-v2) | [Live](https://ux.pearson.com/prototypes/teaching-pal-v2)

* 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](https://gitlab.com/pearson-ct/static-prototypes/mondly-placement-test-v2) | [Live](https://ux.pearson.com/prototypes/mondly-placement-test-v2)

* 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*