TONY LOCKHART

Ellenwood, GA 30294
tony.lockhart@ymail.com
https://github.com/tlockhart

404.913.5934
https://www.linkedin.com/in/tony-lockhart
https://tlockhart.github.io/portfolio

FULL STACK DEVELOPER

Create AI-driven solutions that promote usability, provide embedded support, and foster inclusion

Leverage system design expertise and organizational skills to architect high-level workflows and communicate technical feasibility. Self-starter known for exceptional attention to detail, strong problem-solving abilities, and excellent written and verbal communication skills. Passionate about fostering team growth and knowledge sharing, accelerating product innovation and success.

TECHNICAL SKILLS

Frontend:	TypeScript, JavaScript, React, jQuery, CSS3, HTML5, Bootstrap 5, Redux
Backend:	Node.js, Ruby, Express, MongoDB, MySQL
AI/ML:	Python, Pandas, TensorFlow, MS Azure, OpenAI
Tools & Other:	Git, GitHub, Unix, Docker, Figma, Adobe Creative Suite, Firebase, MS Graph

PROFESSIONAL EXPERIENCE

PEARSON EDUCATION, Atlanta, GA   2021 - 2025

Creative Technologist

Developed projects across divisions in an Agile environment. Hosted TypeScript training sessions to nurture team collaboration and improve technical proficiency. Led Endeavor Project Management use case study, presented findings, and translated them into comprehensive requirements document.

- Developed Teaching Pal prototype to generate instructor lesson plans, featuring lesson objective search with custom CSS-styled React-Select components to filter options based on user input; projected to save U.S. educators 3M hours per week by 2026.
- Integrated conversational AI agent into Pearson Test of English prototype, enhancing natural dialogue; implemented OpenAI Whisper Service for transcription, GPT-4 for NLP responses, and Microsoft Azure Speech SDK for text translation.
- Deployed LTI express server to display 3rd-party SPA applications within Canvas, using Node.js, ims-lti library, and OAuth consumer keys, enabling LMS interoperability and providing process improvement.
- Transformed Endeavor Prototyping web application into enterprise solution by developing Node.js backend API for MS SSO and frontend login components. Designed and implemented project management features, streamlining authentication, enabling project tracking, and optimizing resource allocation.

ENDAVA (previously Levvel), Atlanta, GA   2021

Engineering Consultant

Developed and maintained features for Lineage Warehouse Management System's core services. Enhanced communication between Lineage Dynamic Dashboard, a tablet-based work allocation system, and the carrier messaging system.

- Developed NestJS modules to update delivery schedules in coordination with real-time driver messaging, improving shipment tracking and problem escalation in Lineage Logistics' Dynamic Dashboard.
- Refactored regional UFO services and controllers for redeployment to Lineage Core Services; regenerated and tested RESTful Automation API and HTML client using OpenAPI (OAS) YAML specification, improving barcode resolution and reducing processing delays at warehouse facilities.
- Worked in Agile environment, collaborating with cross-functional teams to manage feature development, bug fixes, and deployments using Bitbucket.

HIGH TIDE TECHNOLOGIES, Atlanta, GA   2019 - 2021

Full Stack Developer

Enhanced High Tide Technologies' AWS-hosted SCADA platform to improve remote system control, provide monthly reporting, and strengthen system security.

HIGH TIDE TECHNOLOGIES (Continued)

- Developed D3 dashboard device components for Ember.js client and Ruby on Rails backend SMS API, enabling remote monitoring, alarm acknowledgment, and system controls for mobile command triggers, reducing on-site outage response time 80%.
- Built a backend XLSX report generation API using Ruby "write_xlsx" gem, enabling users to request device metrics and forecast trends from the client, improving decision-making efficiency.
- Strengthened login security by implementing Ruby JWT authenticated routes, including monthly password resets, refresh tokens, and Multi-Factor Authentication (MFA), ensuring secure authentication and reducing login failures.
- Developed unit and acceptance tests with RSpec and QUnit, certifying application reliability in Dockerized environments using AWS DynamoDB, MySQL, and GitHub Actions CI/CD.

GENERAL DYNAMICS, Atlanta, GA   2011 - 2019

Systems Engineer

Managed system and security administration for CDC World Trade Center Health Program (WTCHP) to ensure efficient medical claims processing for 9/11 responders and survivors. Developed file transfer processes for CDC Clinical Centers of Excellence and Trading Partners, in compliance with Federal Information Processing Standards (FIPS).

- Developed and deployed Alert Logic and Bitdefender installation scripts across 300+ servers in the enterprise network, enabling threat and vulnerability monitoring.
- Automated weekly DISA STIGs compliance reporting using PowerShell scripts, ensuring servers met U.S. Department of Defense security standards.
- Developed Java applications to convert Microsoft Access data into security access reports, verifying controlled access to PII of 100K claimants.
- Created Groovy scripts to verify claimant addresses and banking details, certifying accurate and secure processing of 32,458 claims annually.

GEORGIA GWINNETT COLLEGE, Lawrenceville, GA   2012 - 2014

Digital Media Professor

- Digital Media (ITEC2110): Delivered hands-on instruction in graphic design, audio / video production, and 2D/3D animation to 100 students annually, equipping students with industry-relevant technical skills.
- Introduction to Computing (ITEC1001): Taught core computing concepts, including cybersecurity, networking, and software design to 100 students annually, with 100% achieving foundational IT proficiency.

EDUCATION

Master of Science (MS), Digital Media, Georgia Institute of Technology, Atlanta, GA

Bachelor of Science (BS), Computer Science, Alabama A&M University, Normal, AL

AI and Machine Learning Certificate, UNC AI Bootcamp, UNC-Chapel Hill, Chapel Hill, NC

JavaScript Full Stack Web Development Certificate, Georgia Tech Coding Bootcamp,
Georgia Institute of Technology, Atlanta, GA

SELECTED PROJECTS

- Pearson Test of English (PTE): Conversational AI | GitLab | Demo
  - Implemented language transcription and audio recording with OpenAI Whisper Service
  - Integrated GPT-4 API for low-latency natural language processing (NLP) responses

- Teaching Pal AI Lesson Planner | GitLab | Demo
  - Developed instructor lesson plan generator prototype
  - Implemented dynamic forms for grade level, ESL, and special education customization

- Mondly Language Learning Platform: Placement Test | GitLab | Demo
  - Developed preliminary assessment system to initiate Mondly language learning sessions
  - Designed and built adaptive placement test to assess English proficiency