





# Jeremiah Pitts

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## EDUCATION

### **The University of Texas at Arlington**

*Software Engineering B.E, Physics B.S (Double Major)*

08/2022 – 05/2026

Arlington, TX

- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Theoretical Concepts, Database Systems and File Structures
- **Extracurriculars:**
  - Maverick LUG Nuts (Linux Club): Founder
  - Cybersecurity Club: Workshop Leader, Event Planner

### **Massachusetts Institute of Technology (MOSTEC/MITES)**

*Machine Learning, Science Writing*

06/2021 – 12/2021

Online

- Attended a selective 6-month MIT program, chosen from over 6000 applicants.
- Completed courses in Machine Learning and Science Writing; conducted an interview and submitted a science article, recognized as one of the top articles.
- Developed a number recognizer neural network with 97% accuracy.

## SKILLS

**Technical Skills:** Gentoo Linux, Arch Linux, Unix, Forensics, SolidWorks, Digital Electronics, NumPy, Pandas, AI, Web Scraping

**Languages:** Java, C, Python, Bash, JavaScript, React Native, Assembly, JQL, LaTeX, SQL, Batch, C++, PowerShell, Regex, RobotC, PHP, TI-Basic, Next.js, Express.js, HTML, CSS, Tailwind CSS

**Tools:** Git, VSCode, Microsoft Excel, Microsoft PowerPoint, Vim, OpenRocket, LabView, Splunk, Microsoft 365

## PROJECTS

### **NSA Hardened Gentoo SE-Linux Secured Install Script**

- Designed and implemented a secure installation script for Gentoo Linux with full-disk encryption and SELinux hardening.
- Integrated Xorg, bspwm, and polybar; configured utilities like Fail2ban and Sysklogd to enhance system security.
- Developed over 20,000 lines of code in Bash, Lua, Markdown, and C, demonstrating advanced proficiency in Linux and shell scripting.
- Applied security patches in line with NSA-recommended security scripts, showcasing expertise in UI/UX, scripting, and technologies including Gentoo Linux, SELinux, Xorg, Fail2ban, and Sysklogd.

## PROFESSIONAL EXPERIENCE

### **Ericsson**

*RAN Advanced Architectures Intern*

06/2024 – Present

Plano, TX

- Chosen as one of 10 out of 50 interns for outstanding performance and strategic problem-solving.
- Engineered a MySQL, Tailwind CSS, Express.js, and Next.js application that streamlined the responsibilities of over 10 team members, leading to significant cost reductions.
- Delivered two presentations, edited multiple articles, and authored one published article on the company website, showcasing strong communication skills.

### **CERN - ATLAS Project (Incoming)**

*TauID Subgroup, Physics Researcher*

08/2023 – Present

Arlington, TX

- Conducting research at CERN's ATLAS project, focusing on particle detection using machine learning.
- Developing Python-based machine learning algorithms to compare particle samples and enhance detection accuracy.
- Creating models to simulate particle behavior and improve research outcomes.