

# Brandon A. Daubenspeck

(717) 329-7650 • [brandonaarond@gmail.com](mailto:brandonaarond@gmail.com)

## Summary

---

Adaptable, strategic thinker with 7+ years of experience and an active security clearance. Background in utilizing Agile methodologies, as both a developer and a team leader. Excel at delivering impactful results with relatable communication between technical teams and stakeholders. Seeking to apply my knowledge creating elegant, scalable solutions in an engineering role.

## Related Experience

---

### The Pennsylvania State University Applied Research Lab (ARL)

Feb. 2022 – Current

*Research and Development Engineer 2 – Government Secret Level Clearance*

- Developed UI/UX features for a JavaFX GUI that reduced startup time for new tasks by over 50% and improved data entry efficiency
- Secured funding for new features proposals with a greater than 90% success rate
- Presented live penetration testing demos for customers at the National Cyber Range and achieved all objectives
- Met scope, timeline, and budget goals leading an Agile team of five front-end developers
- Mentored interns through the process of creating a new, specialized inventory management system
- Prototyped a website with FastHTML to improve current inventory management system functionality

### The Pennsylvania State University Applied Research Lab (ARL)

Jan. 2020 – Feb. 2022

*Research and Development Engineer 1 – Government Secret Level Clearance*

- Streamlined front and backend code into a single code-base by porting C++ GUI into Java
- Developed Python scripts to run automated penetration tests based on MITRE ATT&CK Matrix
- Managed a machine learning security project as a Co-PI, leading project planning, presentations, and developing a neural network in PyTorch
- Evaluated the security vulnerabilities of technology stacks by analyzing docker container configurations and other cloud-based software dependencies

### The Pennsylvania State University Applied Research Lab (ARL)

June. 2019 – Jan. 2020

*Research and Development Engineering Intern – Unclassified*

- Selected as one of three interns to develop a functional prototype of an AI-driven penetration testing framework that led to a multi-year funded effort
- Ensured the accuracy of our framework by creating testing software for verifying optimized tree generation algorithms against ground-truth
- Improved optimized tree generation algorithm runtime efficiency by over 200 times
- Prototyped a GUI in C++ for visualizing large AI decision trees, streamlining the user experience and enabling more complex user interactions

### Private Contracting

Jan. 2023 – Current

*Software Engineer - Full Stack*

- Built a stock and options trading platform for simulating trading strategy performance against historical data and estimating future performance
- Organize meetings, demos, and sprint scope for the customer to ensure all needs are met
- Evaluate all aspects of the options market to ensure a valuable and accurate simulation
- Maintain a testable, version-controlled code with GitHub to ensure expedient delivery

## Education and Training

---

**The Pennsylvania State University, The College of Engineering, State College PA.**

Graduated: May 2020

Bachelor of Science in Computer Science

GPA: 3.42

**Metasploit Pro Certified Specialist**

May 2022

## Programming Languages

---

Java	JavaFX	Python	PyTorch	C++	C	JavaScript	HTMX/FastHTML	PostgreSQL
------	--------	--------	---------	-----	---	------------	---------------	------------

## Other Languages and Technical Skills

---

API Dev	Git	CSS	PowerShell	COBOL
Atlassian Confluence	XML	HTML	Metasploit	AWS
IntelliJ IDEA	FXML	SQL	PyCharm	Unity/Godot
GitHub Repository	Jira	VMware	Visual Studio	Docker
Version Control	JSON	SpringBoot	Linux	zOS

## Other Skills

---

Agile Methodologies	Penetration Testing	Public Speaking	Adobe Suite	Microsoft Office	Marketing
---------------------	---------------------	-----------------	-------------	------------------	-----------

## Involvement and Awards

---

### ARL STEM Escape Room – Milton Hershey School

- Taught underprivileged children about engineering and problem solving in STEM fields

### Hackathons

- Took part in student coding events for HackPSU and YCPHacks to apply skills to real-world coding challenges.
  - *Community Foundation Award*
  - *MLH – Best Use of AWS*
  - *Thought for Food Challenge*: Invited to present NuntAgri at the annual Thought for Food Global Summit
  - *Amazon Web Services – Best Use of AWS*

### Smeal Business College: Supply Chain Entrepreneurship Pitch Contest – 2<sup>nd</sup> place

- *Invitation to UPS sponsored national entrepreneurship pitch contest*

### NuntAgri

*Co-Founder*

Harrisburg, PA

May 2017 – July 2022

- Operated a peer-to-peer, AI-powered logistics platform
- Managed an Agile team, coordinated public events, identified ideal customers for marketing, and led front-end development.