

# ARIEL JASON SCHWARTZ

Phone #: (857) 327-3079 | [arieljschwartz@gmail.com](mailto:arieljschwartz@gmail.com) | Mesa, AZ 85210

LinkedIn: in/[ariel-j-schwartz](https://www.linkedin.com/in/ariel-j-schwartz) | Github: /arishorts | Portfolio: [arishorts.github.io/arishorts-portfolio](https://arishorts.github.io/arishorts-portfolio)

Skilled fullstack developer with a B.S. in Mechanical Engineering and seven years of professional experience. Excels in communication with stakeholders and thrives in team environments with cognitive diversity. Served prestigious fortune 500 company and received an award given to two individuals on a program that serves government customers. Develops next-generate software that changes how users interact with information.

## APPLICABLE SKILLS

---

- Frontend: JavaScript, CSS, HTML, Handlebars, jQuery, Bootstrap, ReactJS, GraphQL, Redux
- Backend: Node.js, Express, Jest, Apollo Server, Bcrypt, JSON Webtokens, SQL (MySQL), NoSQL (MongoDB), Bcrypt
- Git, Web APIs (JSON Webtokens, Google Maps, Stripe), Agile, RESTful API, Heroku, Docker

## PROJECTS

---

### **Bookstore** | [github.com/arishorts/googlebookstore](https://github.com/arishorts/googlebookstore) | [arishorts-googlebookstore.herokuapp.com](https://arishorts-googlebookstore.herokuapp.com)

- Summary: Book management application that allows users to search using the Google Books API and save their favorites to a list.
- Role: Backend lead
- Tools: HTML, CSS, Javascript, Node.js, Express, React, React-Router, React Bootstrap, Concurrently, Apollo-Server, Bcrypt, GraphQL, MongoDB, Mongoose, JSON Webtoken.en.

### **E-Commerce** | [github.com/arishorts/E-Commerce-Store](https://github.com/arishorts/E-Commerce-Store) | [arishorts-e-commerce-store.herokuapp.com](https://arishorts-e-commerce-store.herokuapp.com)

- Summary: a feature-rich e-commerce application that includes payment processing during checkout and scalable state management.
- Role: Backend lead and developed frontend
- Tools: HTML, CSS, Javascript, Node.js, Express, React, React-Router, React-Redux, Concurrently, Apollo-Server, Bcrypt, GraphQL, MongoDB, Mongoose, Stripe, JSON Webtoken.

### **MyTechBlog** | [github.com/arishorts/my-tech-blog](https://github.com/arishorts/my-tech-blog) | [arishorts-mytechblog.herokuapp.com](https://arishorts-mytechblog.herokuapp.com)

- Summary: This blogging app is a powerful tool for anyone who wants to create and share content on the web. It provides an intuitive interface for users to write and publish on a variety of topics.
- Role: Backend lead
- Tools: HTML, CSS, Javascript, Node.js, Express, Handlebars.js, MySQL, Sequelize, Express-session, Bcrypt, Jest.

## PROFESSIONAL WORK EXPERIENCE

---

**2019 – Present : Raytheon Technologies (Tucson, AZ), Mechanical Engineer II**

Supplied data-driven engineering recommendations on weapon system programs, covering a broad range of mechanical subsystems, including warheads, rocket motors, launch canisters.

- Led cross-functional teams of engineers, quality, supply chain, and manufacturing personnel from 6 departments in multi-disciplinary analyses to arrive at program-wide solutions.
- Coordinated with government customers, suppliers, and contractors to resolve technical issues; strengthened relationships by organizing and holding regular stand-up meetings.
- Conducted root-cause analysis on manufacturing defects; identified and resolved equipment problems which saved first-pass yield, saving \$13.5 million in rework and scrap costs.
- Presented complex technical information during regular board meetings to both technical and non-technical audiences. Completed 150+ presentations and received positive feedback.
- Demonstrated effectiveness in executing day-to-day tasks remotely with minimal supervision and proficiency in handling occasional travel to meet with suppliers.
- Traveled to the customer site to perform product repair and upgrades, resulting in saving the customer \$1.1 million and completed the work 1 week ahead of schedule.

**2017 – 2019 : Global Retool Group (Wixom, MI), Mechanical Engineer**

Designed drop-in automated machinery with flexible adjustment for Automotive assembly lines.

- Collaborated with cross-functional teams to design and introduce automated machinery and fixtures to assembly lines. Example case resulted in a 33% increase in throughput and decreased downtime.
- Orchestrated and executed in-person product demonstrations for clients, showcasing key features and functionalities, improving customer relationships.

**2016 – 2017 : SMW Manufacturing (Belleville, MI), Jr. Mechanical Engineer**

Created engineering solutions for an automotive manufacturing producer in a fast-paced industry.

- Spearheaded automated Engineering Change Request process, eliminating handwritten sheets that resulted in a 10/hr per week time saving.
- Reduced defects and scrap costs by 25%, resulting in annual cost savings of \$75,000, and improved quality assurance.
- Performed root cause analysis and corrective action for recurring issues. In one case, upgraded to robotic measurement procedures, reducing high-volume scrap by 25% and inspection time by 50%.

## **EDUCATION**

---

**January 2023 – June 2023 : University of Arizona (Tucson, AZ)**

Full Stack Boot Camp Certificate

**August 2010 – December 2015 : University of Arizona (Tucson, AZ)**

B.S. Mechanical Engineering

Mathematics Minor

**Citizenship [US born] with DoD Secret Clearance [11/2019]**