

ARIEL JASON SCHWARTZ

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arishorts.github.io/arishorts-portfolio

Skilled Backend developer with a 3.6 GPA B.S. in Mechanical Engineering and 7 years of professional experience. Excels in presenting technical information to stakeholders and thrives in team environments with cognitive diversity. Served prestigious fortune 500 company and received an award given to 2 individuals on a program that serves government customers. Possesses intellectual curiosity and brings whole self to work.

APPLICABLE SKILLS

- Engineering background with experience designing technical solutions for complex problems.
- JavaScript ES6+, CSS3, HTML5, SQL, NoSQL, Git, MySQL, MongoDB, Express, Node.js, Handlebars, jQuery, Bootstrap, Heroku, Jest, Sequelize, React, GraphQL, Apollo Server, Redux, Stripe, Bcrypt, JSON Webtokens

PROJECTS

Bookstore | github.com/arishorts/googlebookstore | 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.
- Tools: HTML, CSS, Javascript, Node.js, Express, React, React-Router, React Bootstrap, Concurrently, Apollo-Server, Bcrypt, GraphQL, MongoDB, Mongoose, JSON Webtoken.

E-Commerce | github.com/arishorts/E-Commerce-Store | arishorts-e-commerce-store.herokuapp.com

- Summary: a feature-rich e-commerce application that includes payment processing during checkout and scalable state management
- 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 | arishorts-mytechblog.herokuapp.com

- Summary: This blogging app is a 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.
- Tools: HTML, CSS, Javascript, Node.js, Express, Handlebars.js, MySQL, Sequelize, Express-session, Bcrypt, Jest.

PROFESSIONAL WORK EXPERIENCE

October 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 in a clear manner 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.

January 2019– August 2019 : Watts Water Technologies (North Andover, MA), Mechanical Engineer

Designed and produced valve prototypes to meet requirements through testing and analysis.

- Relocated for a position and left due to a family emergency.

July 2017 – January 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.

April 2016 – July 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]