ARIEL JASON SCHWARTZ

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arishorts.github.io/arishorts-portfolio

Skilled full-stack 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

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

PROJECTS

Google 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 Store | 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 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.
- Tools: HTML, CSS, Javascript, Node.js, Express, Handlebars.js, MySQL, Sequelize, Express-session, Bcrypt, Jest.

NoteGenius | github.com/arishorts/NoteGenius | arishorts-notegenius.herokuapp.com/

- Summary: A Note Taker app allowing users to create, save, and view notes. Overall, it provides users with a simple and intuitive way to take and organize notes.
- Tools: HTML, CSS, Javascript, Express, Node.js, Heroku, Joi.

PROFESSIONAL WORK EXPERIENCE

October 2019 – Present : Raytheon Technologies (RTX), 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 meetings to address issues.
- 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.
- Created CAD drawings containing GD&T, general notes, surface finishes, material selection, processing, bill of materials, and configuration management; ensured accuracy and compliance with defense and aerospace industry standards.
- Adhered to internal process for reviewing new contracts ensuring 100% compliance with standard procedures and clear communication with suppliers.
- 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, Mechanical Engineer
Designed, fabricated, and verified 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, Mechanical Engineer
Designed drop-in automated machinery with flexible adjustment for General Motives manufacturing line.
- 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, Jr. Mechanical Engineer
Created engineering solutions for an automotive manufacturing producer in a fast-paced industry.
- Prepared CAD models, drawings, and BOMs for production. Spearheaded automated Engineering Change Request process, eliminating handwritten sheets that resulted in a 10/hr per week time saving.
- Modified tooling analyzing GD&T, metal flow physics, and machine specifications. 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 Certification

August 2010 – December 2015 : University of Arizona, Tucson, AZ
B.S. Mechanical Engineering
Mathematics Minor

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