Abigail Brannan

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🏛 Full-Stack **Software Engineer** seeking entry-level position to enhance problem-solving, technical, and people skills developing **full-stack solutions** and/or applying **cybersecurity** principles.

📖 EDUCATION

Texas A&M University (Spring 2021)
Bachelor of Science in Computer Science with a **minor in Cybersecurity**   (**GPA:** 2.366)
Relevant Coursework: **Cybersecurity Law and Policy, Cybersecurity Risk**, Data Structure and Algorithms, Spanish IV, Computer Organization, Programming Languages, Programming Studio
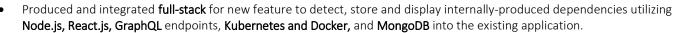
⚙ TECHNICAL SKILLS

- **Experienced:** Java, Git, Agile Methodology, Object-Oriented Programming, Linux Command Line, Test-Driven Development
- **Utilized:** Node.js, MongoDB, SQL, Kubernetes and Docker, GraphQL, REST API, Spring Framework, C++, Micro-Services/FaaS
- **Novice:** React.js, Angular (6.0), Python, HTML, CSS, JavaScript, Cloud-Native, OpenShift, Camtesia, Spanish (Intermediate),

💼 WORK EXPERIENCE
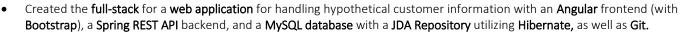
American Express, Phoenix Arizona
Application Security Engineering Intern (June 2019 - August 2019)
- Produced and integrated **full-stack** for new feature to detect, store and display internally-produced dependencies utilizing **Node.js, React.js, GraphQL** endpoints, **Kubernetes and Docker,** and **MongoDB** into the existing application.
- Enhanced a **cloud-native JavaScript** app that statically scans and expresses app-level vulnerabilities with **scaled-agile.**

H-E-B Headquarters, San Antonio Development Center
Software Engineering Intern (June 2018 - August 2018)
- Created the **full-stack** for a **web application** for handling hypothetical customer information with an **Angular** frontend (with **Bootstrap**), a **Spring REST API** backend, and a **MySQL database** with a **JDA Repository** utilizing **Hibernate,** as well as **Git.**
- Collaborated in an **agile context** to design tools producing advertisements for the H-E-B Weekly Ad through **web services.**

Texas A&M Fischer Engineering Design Center
Student Technician (November 2017 - Present)
- **Automated** approval criteria and information transfers within the interconnected Google Sheet system.
- **Led a student technician team** in prototyping PCB's, **teaching and consulting** clients on programming and electronics design.
- Updated instructional materials involving electronics and programming for clients' training using **Camtasia** and various tech.

💬 ACTIVITIES

Aggie Coding Club (August 2018 - Present)
- Attended workshops on a variety of software development-related topics, and enhanced professional network.

Women in Engineering VEX-U Robotics Team (August 2016 – May 2019)
- **Co-Captain** (March 2018 – May 2019): **Managed leadership team** and coordinated team efforts.
- **Programming Historian** (March 2017 – March 2018): **Communicated** team progress in official communications.
- Collaboratively programmed autonomous and driver control functionality using PROS (a **C-based language)** and **GitHub.**

Cybersecurity Club (October 2017 – May 2018)
- Learned about cybersecurity along **certification objectives,** including interactive labs and lectures.

Houston SPCA (January 2015-Present)
- Volunteer Trainer (May 2017 - Present): **Trained 50+ volunteers** to compassionately care for large dogs.
- Provided care and facilitated adoption of large dogs, and educated children concerning the shelter and animal welfare.

📝 PROJECTS

Personal Web Site and Portfolio- **Web app** to enhance my professional presence. Programming Studio (January 2019 – Present)
- **Static HTML and CSS web application** to showcase my personality, talent, and technical experience.
- Link: http://people.tamu.edu/~brannan.abby/

JavaFit: Fitness for Computer Scientists- **Java app** for custom workouts. Programming Languages Class (April 2019 – May 2019)
- Built the backend and the main page for the GUI in **Java** to work with the provided driver and frontend rendering methods.
- Link: https://github.com/brannan-abigail/Project-CSCE314

OpenShift Example Project: Basic **Java app** demonstrating use of **OpenShift, Kubernetes'** and **Docker.**
- **Grace Hopper Open Source Day** (October 2018): Created a basic Java app that **coordinates updates.**

Center for Open Science: **Machine learning** tool for researchers to tag articles according to topic for ease of searching.
- **Grace Hopper Open Source Day** Participant (October 2017)**:** Learned the basics of **machine learning** and **Python.**

Holodeck: Virtual Reality communication and visualization tool for designers in the construction space.
- **Texas A&M Innovation Corps Site** Participant (July 2017 - August 2017): Performed **customer validation** with 36 customer interviews, and developed and presented a possible **business model.**