

## Languages and Technologies

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- Languages: Java, Typescript, Javascript, Python, SQL, Go
- Technologies: Angular, React, Tailwind, Git, Docker, GitLab, Jenkins, PostgreSQL, Eclipse RCP

## Work Experience

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**Senior Software Engineer** **Boeing** **October 2015 – Present**  
Mesa, AZ / St. Louis, MO (Remote)

- Co-lead full-stack developer on OSEE, an open-source suite of tools used by two of Boeing's largest defense programs to version control software and system requirements, manage messaging ICDs for communication between real-time systems, and trace requirements to code and test. Make architectural decisions, build complex user interfaces, and improve server performance. (Angular, Java)
- Led the development and delivery of a large update for an Aircraft Mission Planner desktop application, supporting two models of aircraft for three customers on a single product line. Delivered the update on-time and within budget, providing pilots and crew with the ability to create reusable mission data before a mission rather than in the cockpit. (Java)
- Contribute to Open System Engineering Environment (see Projects section below).
- Build and manage CI/CD pipelines in GitLab and Jenkins that provide automated testing, linting, builds, and deployments.
- Mentor junior engineers, helping them get up to speed on projects, learn best practices, and providing advice based on my experience.
- Served as scrum master for a cross-functional team in a SAFe agile organization, facilitating communication between teams and helping to eliminate roadblocks.
- Developed automated test scripts for real-time embedded software, ensuring high-quality, low-defect builds.

**Software Engineer (Contractor)** **McMurry/TMG, LLC** **July 2014 – August 2015**  
Phoenix, AZ

- Developed many websites in PHP using the Drupal content management system, including content marketing sites, brochure sites, and a site for a large auto racing organization that included live videos and news.
- Built custom Drupal modules and templates to meet the needs of clients and their users.
- Performed maintenance, bug fixes and added new features to existing Drupal, WordPress and CodeIgniter sites.

**Web Developer** **Student Affairs Systems Group** **November 2012 – May 2014**  
Tucson, AZ

- Developed custom Drupal modules in PHP, including one that connects to the University of Arizona EDS database in order to assign user roles based on the user's database information.
- Assisted in building websites for departments at the University of Arizona, such as Campus Recreation and UA Family.
- Managed users and their permissions across Student Affairs websites.

## Projects

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### Open System Engineering Environment

Boeing

- <https://github.com/eclipse-osee/org.eclipse.osee>
- OSEE is an open-source project that provides users with tools to create data in any format, providing version control, tracing, and automation. It is commonly used to version control software and system requirements, and trace those requirements to code and test scripts.
- Build complex user interfaces using Angular 18 that allow users to manage messages used in real-time software.
- Develop REST APIs and services in Java that are used to version control data, generate documents in various formats, perform data processing, and more.

### Portfolio

Personal

- <https://www.ryanbase.dev/>
- A portfolio site that provides details on both my professional and personal projects.

### ScreenGrab

Personal

- <https://screengrab.ryanbase.dev/>
- ScreenGrab is a game I built that was inspired by games like Wordle and Framed, where you are given screenshots of video games and you have six tries to guess the name of the game. There are 100 games to play and your progress is stored locally in the browser.
- Built using Next.js with Typescript and Tailwind CSS.

## Education

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- **B.S. Computer Science**, University of Arizona

2010–2014