

# Ryan Walters

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## Education

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The University of Texas at San Antonio

June 2021 – May 2025

Systems Programming, Data Structures, Computer Programming II

## Work Experience

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### Software Development Intern

May 2022 - Present

#### **Black Pearl Technology, Inc.**

- Designed a multi-platform mobile application with Xamarin Forms, a Microsoft SQL database & ASP.NET webserver to help scale productivity at a remote manufacturing facility.
- Created a component management & inventory system supported by a custom MH 10.8 ANSI barcode scanner in a mobile app enabling fast provisioning and insertion of items into a RFID-based tracking system.
- Developed a low-level microcontroller program to interface with a TI RFID/NFC Transceiver to read & write raw byte blocks and UIDs off ISO 15693 tags.
- Utilized custom dual SPI-bus design to interface a microcontroller and RF transceiver simultaneously.

### Projects Officer

April 2022 - Present

#### **The Association of Computing Machinery at UTSA Student Chapter**

- Assisted ACM members with projects ranging from development, troubleshooting, learning material & recruiting.
- Developed and presented lectures on various technologies useful for project (or personal) development.
- Revamped ACM-UTSA's website design & login/attendance system to improve member experience.
- Conceptualized & assisted development of a grant-based funding system for student projects.

## Projects

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See more [here](#)

- [Runnerspace](#) (2022)
  - Developed a retro UTSA-themed social media website for [RowdyHacks 2022](#) in less than 36 hours with just Flask, Sass, SQLAlchemy ORM and one team member.
  - Featured form validation, deployment on Heroku, active login/registration, profile editing, online indicators, profanity filters and a blog post [here](#).
- [Xevion.dev](#) (2022)
  - Created a personal website for blogging and portfolio purposes with Jekyll, Sass and Liquid templating with zero frameworks, hosted on GitHub Pages for free.
  - It features compressed HTML (1.7 KB) in an elegant, LaTeX-inspired, dark mode theme.
- [The Office](#) (2022)
  - Engineered a statically generated, Vue-based, and Firebase-hosted quote viewing & searching application for the hit 2005 sitcom 'The Office'.
  - Included a RegEx text extraction and XML/JSON transformation engine supporting zero/single/multi-character quotes with substring name linking.
  - Indexes over 50,000 quotes and 300 unique characters while provides <2ms real-time searches with Algolia.
- [Phototag](#) (2020)
  - Devised a command-line-based application for the automated tagging of photos with useful keywords based on their content (objects, shapes, properties) using Google's Vision API.
  - When embedded into a photography workflow, this application can accurately tag entire galleries in under 10 seconds with hundreds of high-performance SEO tags.

## Skills & Tools

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<b>Languages</b>	Python, Java, C, Kotlin, C#, JavaScript (ES6), Typescript, Markdown, Elixir, Jinja2, Liquid
<b>Frontend</b>	HTML5, CSS3, Vue, Jekyll, PyQt5, Webpack, Sass, Bootstrap, jQuery, Jinja, Hugo, Tkinter
<b>Backend</b>	Django, Flask, Express, ASP.NET
<b>Database</b>	SQLite, PostgreSQL, SQLAlchemy ORM, Entity Framework, Cloud Firestore, Algolia Search
<b>Miscellaneous</b>	PowerShell, Unity, Cloud Functions, Xamarin Forms, Soldering