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| Ryan Walters | [ryanchwalters@gmail.com](mailto:ryanchwalters@gmail.com) | [xevion.dev](https://xevion.dev/) | [github.com/Xevion](https://github.com/Xevion/) |

**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** | See more [here](https://xevion.dev/projects/) | | |
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* [Runnerspace](https://github.com/Xevion/Runnerspace) (2022)
  + Developed a retro UTSA‑themed social media website for [RowdyHacks 2022](https://www.rowdyhacks.org/home) 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](https://xevion.dev/2022/03/29/runnerspace-built-in-under-30-hours/).
* [Xevion.dev](https://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](https://the-office.xevion.dev/) (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](https://github.com/Xevion/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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| **Languages** | Python, Java, C, Kotlin, C#, JavaScript (ES6), Typescript, Markdown, Elixir, Jinja2, Liquid |
| **Frontend** | HTML5, CSS3, Vue, Jekyll, PyQt5, Webpack, Sass, Bootstrap, jQuery, Jinja, Hugo, Tkinter |
| **Backend** | Django, Flask, Express, ASP.NET |
| **Database** | SQLite, PostgreSQL, SQLAlchemy ORM, Entity Framework, Cloud Firestore, Algolia Search |
| **Miscellaneous** | PowerShell, Unity, Cloud Functions, Xamarin Forms, Soldering |