

# Andrew Zito

Full stack web developer, software engineer

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## Key Skills

- **Frameworks/Languages:** PHP (5 yrs), TypeScript (5 yrs), WordPress (4 yrs), Drupal (4 yrs), React.js (2 yrs), Django (1 yr), Ruby on Rails (1 yr), Jest (1 yr), Cypress (1 yr), MySQL/MariaDB/Aurora (6 yrs), PostgreSQL (2 yrs), SASS/LESS (5 yrs)
  - **Infrastructure (AWS):** Linux CLI, Ruby SDK, CDK (TypeScript), ECS, RDS, S3, EC2 (4 yrs each)
  - **Tools:** Git (6 yrs), GitHub Actions (2 yrs), GitLab CI (5 yrs), Docker (+Compose) (6 yrs), VSCode (6 yrs), Slack (6 yrs)
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## Experience

### Web Developer at Hampshire College

01/2023 – present

- Led redesign and overhaul of a custom narrative evaluations platform using **Django & React**
- Independently reviewed & updated 4-year-old legacy code and **modernized over 10 outdated packages**
- Engineered several new features and facilitated ongoing future development after years of static maintenance
- **Authored comprehensive software documentation**, providing clarity for future developers and stakeholders
- Fortified application by integrating up-to-date **Jest and Cypress** automated testing frameworks, increasing stability
- Led upgrade process from **Moodle 3.11 to 4.1**: evaluated new theme and plugins, improved process docs

### Software Engineer at Green River

08/2021 – 10/2022

- Developed custom **Ruby on Rails & React** applications catering to a diverse clientele with unique requirements
- **Collaborated directly with clients** to shepherd requirements from discovery to launch: spec, feedback, iteration, QA
- Constructed intuitive UI components, enhancing user experience, interface fluidity (**Ruby & Slim, React & MD5**)
- Performed in-depth **analysis of legacy code** to streamline new feature implementation
- Conducted **cross-project meta survey**, presented results & identified areas for high-impact, low-cost improvement
- Optimized **bespoke deployment tool** for better performance & more reliable rollouts in [OpenPath HMIS Warehouse](#) (**AWS Ruby SDK, AWS CLI, AWS ECS, GitHub Actions**)
- Orchestrated seamless **manual and CI deployments** to multiple environments, ensuring continuous integration of new features and bug fixes (**Capistrano, GitHub Actions, AWS SDK & CLI**)
- Refactored **local dev environment** standards to accommodate varied host configurations: used nested Docker files to enable automated test running, volume performance optimization (**Docker Compose**)
- Crafted and integrated robust **Terraform modules** to support client hosting capabilities

### Web Developer at Lafayette College

03/2018 – 07/2021

- Developed **AWS stacks (infrastructure as code)** to host college web applications (**AWS CDK, TypeScript, CloudFormation, EC2, Fargate/ECS**)
  - Enhanced cloud hosting with features like **caching, high availability, monitoring, DNS routing**
  - Played key role in **project management**: wrote scopes, project plans, tech reviews to deliver on time & within budget
  - Designed **WordPress plugins and themes** to augment accessibility, user experience, integration with external data sources
  - Built **Drupal modules and themes (Drupal 8)** to support unique user needs
  - Established robust **CI/CD workflow** for deployment speed & reliability (**GitLab CI, Capistrano, PHP Deployer, AWS CDK**)
  - Architected usable, efficient **local dev environments** for **WordPress, Moodle, Drupal (Docker Compose)**
  - Constructed UI elements compliant with **WCAG 2 standards**, prioritizing accessibility and maintainability (**PHP, Twig, SASS**)
  - Implemented **GDPR compliant** personal data export and deletion for **Moodle plugins**
  - Created automated unit and acceptance tests for **Moodle plugins (PHPUnit, Behat)**
  - Maintained custom **Symfony applications**: Bing-backed search, keymatch management, course data API wrapper
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## Education

### B.A. Software Engineering at Hampshire College

2015 – 2017

- Division III Project ‘**Syntree**’: a web app to visually create syntax trees with a **GUI interface (PHP, JavaScript, Snap.svg)**

### A.A. Philosophy at Bard College at Simon’s Rock

2013 – 2015