

Nathan Harris

SUMMARY

Excited to take head-on the fast-paced, high-stakes world of software development. Retired journalist.

SKILLS AND TECH

- **Programming Languages:** Java, .NET, C#, Python, Node.js, Javascript, HTML, CSS, Ruby, PHP, Golang, Dart, Flutter, Groovy, Grails, Scala, SQL.
- **Software Development:** Version Control Systems, Git, REST API design, Microservices, Database, ORM, MySQL, SQLite, Postgres, JetBrains, IntelliJ, PyCharm, RubyMine, WebStorm, Rider, GoLand, PhpStorm, VS Code, Visual Studio, User Experience, Open Source Software, GitHub, Gitea.
- **Automation:** Scripting, Python, Selenium, Playwright, Jenkins, CI/CD.
- **System Administration:** Linux, Unraid, Docker, Docker Compose, Portainer, Kubernetes, Self-Hosting, Homelab, Deployment, Scaling.
- **Developer Experience:** Documentation, Code Snippets, Examples, Guides, SDKs, Tutorials.
- **Communication:** Public Speaking, Writing, Creative Writing, Podcasting, YouTube.
- **Journalism:** Gannett Co. Inc., USA Today Network, CNN, The Atlanta Journal-Constitution, The Zanesville Times Recorder, The Red & Black Publishing Co., Flagpole Magazine, Fact-checking, Research, Editing, Breaking News, AP Style, Copy Editing.
- **Operating Systems:** Windows, Mac OS, Linux, Ubuntu, Unraid, ProxMox, Docker, Hypervisor, Virtualization.
- **Microsoft Office:** Word, Excel, PowerPoint, Outlook, Access.
- **Artificial Intelligence:** Machine Learning, TensorFlow, PyTorch, OpenCV, Natural Language Processing, NLTK, OpenAI, Llama, Qwen, Ollama, GitHub Copilot.
- **Project Management:** Agile, Scrum, Phabricator, YouTrack.
- **Data Analysis:** SQL, SQLite, MySQL, MS SQL Server, Tableau, Socrata.
- **Web Development:** React, Bootstrap, Material Design, CSS, HTML, Javascript, jQuery, UX/UI.
- **Network Engineering:** Unifi, pfSense, Ubiquiti, Firewall, VLANs, Ad-Blocking, DNS, DHCP, WireGuard, OpenVPN, VPN, Access Point.

EXPERIENCE

PaymentWorks	Software Engineer	Jul 2025 — Present
<ul style="list-style-type: none"> ◦ Involved in major redesign of core platform architecture to improve scalability and reliability ◦ Spear-headed adoption of Pydantic validation tooling into Django-based monolithic application ◦ Explored internal and external application of AI technologies to improve user experience and developer efficiency 		
Charles Schwab	Software Engineer	Mar 2025 — Jul 2025
<ul style="list-style-type: none"> ◦ Facilitated migration from legacy on-premise BitBucket VCS system to GitHub Enterprise ◦ Implemented automated CI/CD pipelines using GitHub Actions for multiple internal applications ◦ Spear-headed internal Python test suite and standards for automated testing 		

EasyPost**Software Engineer****Nov 2021 — Jan 2025**

- Revitalized and redesigned EasyPost's open-source API client libraries (C#, Java, Python, Node.JS, Ruby, Golang, PHP), which handle 85% of EasyPost's API traffic, to ensure thread safety and improve performance and usability
- Built CI/CD pipeline for EasyPost's open-source libraries (GitHub Actions), including automated testing and package compilation and deployment
- Migrated multiple internal services from monolithic to microservices architecture, improving scalability and reliability while reducing CI/CD pipeline complexity by 75%
- Led design and development of open-source HTTP VCR utility for Java and .NET (EasyVCR) used in automated test suites
- Introduced Carrier Metadata microservice for EasyPost's shipping API, consolidating real-time, machine-queryable carrier information and service availability
- Spear-headed migration of EasyPost's API documentation to a new standalone platform and redesigned the documentation to be more mobile-user-friendly and accessible
- Integrated acquired company's claims submission and tracking portal into EasyPost's insurance provider ecosystem
- Established company-wide coding standards and best practices for various languages

Freelance Software Developer and Consultant**Jun 2020 — Present**

- FusionAuth - .NET software consultant on the FusionAuth .NET SDK, providing guidance and development on the SDK's design and implementation.
- Montjoy - Product consultant and freelance app developer for early-stage startup providing paid, private livestream platform for remote, geolocation-based tours and communication.
- Aidly IT - General consultant and Level 2 Support for cloud systems and boutique software solutions for small-business and non-profit IT consulting firm

Technically Speaking Podcast**Podcast Host****Sep 2016 — Present**

- Interview with Andrew Freed (Master Inventor, IBM) on the future virtual assistants and chatbots (2021)
- Interview with Mohamed Elgendi (CEO, Kolena) on the world of deep learning and computer vision systems (2019)

Open Source Developer**Aug 2018 — Present**

- EasyVCR - An open-source Java and .NET utility for recording and replaying HTTP requests in automated test suites
- Tauticord - A self-hostable Discord bot for viewing and managing Plex Media Server streams via the Tautulli companion monitoring software
- Pytulli - The de-facto, feature-complete Python API client for Tautulli
- Home Assistant - Contributed integration extensions, Docker application add-ons, importable automation blueprints, and documentation improvements
- Unraid - One of the leading contributors to the Unraid community applications store, porting Docker applications to easy-to-install templates, significantly increasing each application's potential user base

Force 5 Inc.**Software Developer Analyst****Jun 2020 — Nov 2021**

- Head developer of cross-platform (Xamarin.Forms) mobile app for visitor check-in and check-out
- Implemented various new features and services, including facial-recognition- and QR-code-based identification methods and fuzzy-match-powered watchlist enforcement
- Maintained remote-site database syncing mechanisms through locked-down, air-gapped networks
- Orchestrated restructure of backend API and reduction of technical debt
- Served as go-to source for internal devops, including task-tracking automation and CI/CD pipelines
- Acted as liaison between development team and end users regarding NERC CIP compliance instruments for energy corporation clients

- Developed and implemented a Qualtrics API library in Python for use in in-house automation scripts for survey creation, management and response processing
- Curated data collection (MS SQL) and conducted analysis (Tableau) on current and former interns, capstone students and grant workers to assess Center of Excellence KPIs
- Served as project manager on various new technology implementation projects, including collaborative departmental iPads and customer service survey kiosks across various county facilities

Gannett USA Today Network	Community Reporter	Jul 2018 — Mar 2019
CNN	TV Apps Intern	Jun 2018 — Jul 2018
◦ Debugged and QA-tested CNNgo app on various platforms, including Roku, Apple TV, Amazon Fire TV, Android TV and Samsung Smart TV		
◦ Facilitated communication between development team and end-user feedback and bug reports		
◦ Assisted in early-stage design phase of MVP for new CNNgo app		
The Red & Black	News Writer	Sep 2014 — May 2018
◦ Served as lead news desk editor in Fall 2016		
◦ Served as city news desk editor in Spring 2016		
◦ Served as lead investigative reporter in Spring 2018		
◦ Served as senior city correspondent in Fall 2015		
Georgia News Lab	Investigative Reporter	Aug 2017 — May 2018
Atlanta Journal-Constitution	Freelance Reporter	Dec 2017 — Jan 2018
Flagpole Magazine	News Reporter	Aug 2017 — Dec 2017
Atlanta Journal-Constitution	Henry County News Reporter	Jun 2017 — Aug 2017

PROJECTS

- **Open-Source Development:**
- **College At All Costs:**
- **Proposed Georgia Campus Carry Legislation:**

EDUCATION

Georgia State University	Dec 2019 — Dec 2020
Bachelor of Science - Computer Science, GPA: 3.8 GPA	
Grady College of Journalism and Mass Communication, University of Georgia	Dec 2016 — Dec 2018
Bachelor of Arts (A.B.J) - Journalism	
The University of Georgia	Dec 2014 — Dec 2018
- Minor in Computer Science, New Media Certificate, GPA: 3.76 GPA	

PUBLICATIONS

Journalism Portfolio

AWARDS

Best Administration Reporter in the South - Second Place, Society of Professional Journalists	May 2016
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