

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

EasyPost	Software Engineer	Nov 2021 — Jan 2025
<ul style="list-style-type: none"> ◦ 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

Fulton County Government - IT

Department

Digital Business Transformation

Intern

Oct 2019 — Jun 2020

- 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

- 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**