

Daniel Shkempi

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EDUCATION

Purdue University (Evans Scholar, Full Ride Scholarship)

Bachelor of Science in Computer Engineering, Concentration in Software Engineering

Lafayette, IN

Aug. 2021 – May 2025

PROFESSIONAL SUMMARY

I bring hands-on experience from internships in backend development, QA automation, and data analytics, and have led a full-stack NFL analytics project using modern tools like TypeScript, Express, and AWS. My passion for software engineering is reflected in my drive to build efficient, well-documented systems that improve performance and deliver measurable results.

EXPERIENCE

Data & Software Engineer Intern

Jun. 2024 – Dec. 2024

Keeper Security

Remote

- Reduced data processing time by 40% and improved scalability by translating complex B2B Annual Recurring Revenue (ARR) Tableau workflows into a streamlined Python and SQL codebase which enhanced the data pipeline
- Improved maintainability and collaboration by integrating version control in GitHub and establishing detailed documentation using Atlassian tools
- Enabled faster business insights by refactoring inefficient ARR algorithm logic, cutting execution time by over 60%

Quality Assurance Software Engineer Intern

Mar. 2024 – May. 2024

WebGM LLC, DBA reqstaq

Remote

- Improved release quality and reduced regression errors by developing comprehensive automation scripts and frameworks across application tiers using Selenium and Capybara
- Increased testing coverage by over 70% by implementing robust automated testing processes for a complex SaaS platform
- Enhanced development speed by identifying and reporting test results, leading to code improvements before release

Data Science & Analytics Intern

May 2023 – Aug. 2023

Gallagher

Rolling Meadows, IL

- Reduced manual risk assessments by 30% through predictive models using machine learning algorithms in Python
- Enhanced data reliability and insight quality by leading data cleaning and preprocessing of large insurance datasets
- Delivered actionable insights to stakeholders by building dashboards in Power BI, improving claim evaluation workflows

PROJECTS

Playbook Insights – NFL Analytics Platform

Jan. 2025 – May 2025

Project Lead & Full-Stack Developer

West Lafayette, IN

- Architected a full-stack web app that ingests 15M+ NFL play records and delivers interactive visualizations in React/Vite/Tailwind with <200 ms median API latency
- Defined an OpenAPI 3.0 spec and implemented a type-safe Express/TypeScript backend with 40+ REST endpoints using parameterized SQL and JSONB to accelerate complex filters
- Created reusable validation and formatting helper functions and unit tests with Jest to ensure 95%+ coverage across route handlers and database client logic
- Built an end-to-end CI/CD pipeline (GitHub Actions → Docker → AWS ECS/RDS/Terraform), cutting release time from 45-minute manual steps to a 10-minute push-button deploy
- Boosted dashboard load speed 60% by adding Redis caching, indexing hot queries, and memoizing expensive React selectors

LEADERSHIP AND ACTIVITIES

President & Vice President | Evans Scholars

Jan. 2023 – Jan. 2025

- Led a 42-member chapter by upholding professional standards, managing house operations, and mentoring a 7-person executive board across communications, finance, and outreach. Acted as the primary liaison to the Western Golf Association and onboarded 11 new members, improving retention and engagement.

Product Manager & Design Lead | Purdue EPICS DKC

Aug. 2024 – May 2025

- Led cross-functional collaboration between hardware, software, and design teams to deliver an accessible tempo training device for the deaf and hard of hearing community. Oversaw project planning, delegated tasks based on individual strengths, and ensured milestone completion under tight deadlines. Managed technical deliverables including CAD models designed in Fusion 360, a migration of the software stack to PlatformIO, and presentations to stakeholders.

TECHNICAL SKILLS

Languages: C, Python, Selenium, Capybara, Ruby, RISC-V Assembly, MATLAB, HTML, JavaScript, C++, TypeScript

Frameworks: VS Code, Git, PyCharm, Eclipse, Thonny (Embedded SWE), Jira, Atlassian, Power BI, SQL, Microsoft Office, LaTeX, Tableau, LTspice, Jupyter Notebook, Fusion 360, Data Structures & Algorithms, PostgreSQL, AWS, Flask, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform (GCP), VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib, scikit-learn, PyTorch, TensorFlow, Seaborn