

# Nicholas Adam Kalar

Tallahassee, FL | +1 (661) 319 - 9705 | [nick@kalar.codes](mailto:nick@kalar.codes) | [linkedin.com/in/nkalar](https://linkedin.com/in/nkalar) | [gitea.cloud/NickKalar](https://gitea.cloud/NickKalar)

Nick is an experienced backend and cloud platform software engineer using Python and AWS with over 14 years of professional experience in IT, customer service, and software engineering helping clients modernize, streamline, grow, and deliver their ideas. From functional to technical roles, he has worked to both design and build solutions to solve clients' business challenges. Nick strives to improve the way people live and grow through technology, and is eager to use his diverse set of skills to help companies make improvements to their technology landscape.

## Skills

**Programming Languages:** Python | Kotlin | C++ | Java | C#

**Frameworks/Libraries:** Ktor | Http4k | FastAPI | Pandas | Pytest | Django

**Databases:** PostgreSQL | MySQL | MariaDB | MongoDB | [Ditto](#)

**Other Technologies:** AWS | Azure DevOps | Datadog | Docker | Pixar OpenUSD | NVIDIA IsaacSim | Miro | Jira

## Work Experience

### Ernst & Young, LLP

*Senior Backend Software Engineer, Digital Engineering (DE)*

**Tallahassee, FL**

*July, 2021 - November, 2025*

- Multinational Automotive Corporation based in Irvine, CA
  - Assisted in **engagement management initiation and governance** of a new AI focused program including risk management, seeking approvals from both Business leadership and Legal teams, gathering requirements and building roadmaps, and facilitating communications with engagement leadership and team members.
- Energy.AI Internal Engagement
  - Developed an enterprise ready Proof of Concept of NVIDIA's IsaacSim capabilities for a Fortune 500 American multinational oil company by creating custom **extensions written in Python in OpenUSD** to be leveraged while simulating autonomous NOVA-Carter robotic movement to a desired location of a simulated plant that had been generated leveraging facility laser scans.
- Quick Service Restaurant based in Atlanta, GA
  - *Python Software Developer*
    - Developed **RESTful APIs** utilizing **AWS Lambda and ECS** to handle up to **500 requests a minute per endpoint**.
    - Developed a bespoke **C# application** to integrate legacy systems with newly created systems, enabling the flexibility to upgrade systems one at a time.
    - **Subject Matter Expert** on Python best practices, helping my team to better understand and utilize Python features, and championed a change to Test Driven Development.
    - **Managed 2 junior developers** to guide them in building client trust, navigating and researching challenging tickets independently, and ensuring the delivery of client and enterprise ready code.
  - *Senior Support Engineer*
    - Led a **team** of 4 engineers in supporting a suite of front and back end applications for 50+ restaurants handling 20+ weekly incidents. These applications ranged from frontend Mobile and Web applications to backend APIs and database systems.
    - **Created monitors and alerts in Datadog** to ensure systems were functioning as expected.
    - **Responded to and triaged issues** as they happened, and **assisted end users and developers** to understand the issues happening and how to mitigate or correct them.
    - **Created a Pandas application** to run daily to aggregate assigned tickets as well as **track overall trends for application, locations, severity, and other key metrics**.
  - *Systems Analyst*
    - **Created API documentation, onboarding documentation, and architecture diagrams** for an internal Android/iOS library team focused on technical and functional audiences.
    - **Translated functional requirements to technical specifications**, facilitated communication between developers and business stakeholders.
    - **Assisted in the development** of Android and iOS test applications for Software Developers and Quality Engineers to test new builds.
- Internal Go To Market Strategy Team
  - Developed **content and synthesized delivery efforts** within the Technology and Retail fields to enable the Sector Partner to highlight DE's capabilities to the larger EY organization.

*Backend Software Engineer, Digital Engineering*

*July, 2021 - June, 2023*

*March, 2022 - July, 2022*

- Quick Service Restaurant based in Atlanta, GA
  - *Quality Engineer*
    - Created and executed more than 50 **functional, smoke, acceptance, regression, and integration testing suites** for in-house Dispatcher and Delivery Driver applications.
    - **Wrote reports** based on the testing suite outcomes and opened defect tickets for developers.
    - Lead a series of "bug bashes" and simulations to **stress test and validate** the applications.
- Home Improvement Retailer based in Burnsville, MN
  - *Technical Business Analyst*
    - Assisted in the **technical design of a middleware translation layer** sitting between a legacy database system and a modern front end web application, and **created technical documentation** for the system.
    - **Led workshops with stakeholders from multiple teams** to gather business and technical requirements, agree on the design of the systems and data models, and created technical user stories for the developers to execute on.

## Education

Bachelor of Science in Computer Science – Information Systems

*August, 2018 - December, 2020*

[California State University, Bakersfield](#)

- Dean's List – 2018, 2019, 2020
- Cum Laude – 3.64 GPA