

Nicholas Adam Kalar

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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	Tallahassee, FL
<i>Senior Backend Software Engineer, Digital Engineering (DE)</i>	<i>July, 2021 - November, 2025</i>
<ul style="list-style-type: none">Multinational Automotive Corporation based in Irvine, CA<ul style="list-style-type: none">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<ul style="list-style-type: none">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<ul style="list-style-type: none"><i>Python Software Developer</i><ul style="list-style-type: none">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.<i>Senior Support Engineer</i><ul style="list-style-type: none">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.<i>Systems Analyst</i><ul style="list-style-type: none">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<ul style="list-style-type: none">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.	September, 2025 - November, 2025 May, 2025 - November, 2025 October, 2022 - May, 2025 November, 2024 - November, 2025
<i>Backend Software Engineer, Digital Engineering</i>	<i>July, 2021 - June, 2023</i>
<ul style="list-style-type: none">Quick Service Restaurant based in Atlanta, GA<ul style="list-style-type: none"><i>Quality Engineer</i><ul style="list-style-type: none">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<ul style="list-style-type: none"><i>Technical Business Analyst</i><ul style="list-style-type: none">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.	March, 2022 - July, 2022 August, 2021 - February, 2022

Education

Bachelor of Science in Computer Science – Information Systems	August, 2018 - December, 2020
California State University, Bakersfield <ul style="list-style-type: none">Dean's List – 2018, 2019, 2020Cum Laude – 3.64 GPA	