Chaitanya N.V.K

📞 +1 404-490-5061 ✉ chaitanya.nvk777@gmail.com 💼 linkedin.com/in/nvk-chaitanya 🐙 github.com/nvk681

Education

Georgia State University - Full Scholarship along with GTA — Aug. 2021 – Dec. 2022
Masters of Science in Computer Science; GPA:3.96/4.0 — *Atlanta, Georgia*

Vignan University - Merit scholarship — Aug. 2014 – Aug 2018
Bachelor of Technology in Computer Science; GPA: 3.65/4.0 — *Guntur, AP, India*

Technical Skills

Languages: Python, JavaScript, Java, NoSql, Node JS, React JS, PHP, SQL Server, SOAP, and REST
Developer Tools: Git, Jira, Linux, Docker, SQL, Database design

Experience

Amazon — Sep 2023 – Now
Software Development Engineer — *Seattle, WA*

- **UNFI Enhancement**: Improved UNFI review and deep dive pages, streamlining vendor item-store updates and reducing decision-making time from **hours to minutes**.
- **WRAP Backfills**: Led backfill initiatives in the UK, JP, and US, enabling online sales for physical stores and **increasing sales by 20%** in the initial months.
- **WRAP Migration**: Optimized migration workflows and Lambda configurations, achieving a **30% reduction in migration time**.
- **Guardrails**: Developed workflow rules and validations, resulting in a **60% decrease in user tickets**.
- **Risks**: - Proactively addressed security and software issues, reducing average turnaround time by **two weeks**.
- **Sourcing Grid**: - Designed a new API and user interface to streamline configuration, simplifying selection from **five attributes to one**.
- **Grocery Listing**: Enhanced the listing process for the supply chain, cutting user story time from **10 minutes to 4 minutes** for over **25 million global users**.

RE IT Services Inc — Feb 2023 – July 2023
SDE — *Atlanta, GA*

- **Data Pipeline**: Implemented auto archival of database records, resulting in a **90% improvement in query performance**.
- **API Scaling**: Enhanced APIs to support increased load and automated tasks within the CI/CD pipeline, saving **6 hours of manual work per task**.
- **Data processing**: Developed event-driven data processing solutions to standardize multi-source data across **18 systems**, eliminating data discrepancies and reducing on-call workload by **11 hours per week**.

Amazon — May 2022 – Aug 2022
SDE Intern at AWS — *Metro DC, VA*

- **AEA onboarding**: Collaborated to streamline the onboarding process, reducing average onboarding time by **7 hours per instance**.
- **Topos**: Developed a full-stack console for addressing security issues identified by network scans in Amazon Enterprise Access, enhancing identifying and preventing security threats across **9,000 Amazon services**.

Darwinbox (Cloud-based HRMS platform) — Jun 2018 – Aug 2021
Senior Software Engineer — *Hyderabad, AP*

- **Microservices Migration**: Architected and led a migration to microservices using Node.js, reducing average throughput time from **6 minutes to 1 minute** and enabling business workflows as a service; also focused on application security.
- **Payslip customization**: Developed a flexible framework for payslip customization, attracting clients with over **1 million employees** to the payroll platform.
- **Dynamic Reporting Framework**: Implemented a PHP-based framework for on-demand reporting, allowing data presentation for **200,000 employees** in a single request.
- **Mongo DB**: Explored and implemented various optimization techniques, resulting in an **$800K reduction** in MongoDB costs.
- **Multi-Payroll Integration**: Created stateless APIs for payroll processes, facilitating seamless integration for third-party clients and serving **1 million users** across multiple systems.

- **Payroll**: Analyzed and resolved bottlenecks in payroll processing, reducing manual work from **40 to 12 person-hours by automating existing processes**.
- **Optimized Notifications**: Developed bash scripts for processing emails and notifications, effectively managing communications for over **200,000 users** in bulk.
- **Taxation**: Established a foundation for handling multiple tax systems, enabling seamless management of tax amendments and attracting **50 new clients**.
- **Recruitment**: Constructed a pipeline using event emitters to automate internal recruitment processes, reducing hiring time by **60%**.

Darwinbox (Cloud-based HRMS platform)   **Dec 2017 – Apr 2018**
Intern   *Hyderabad, AP*

- **Chatbot**: Leveraged **Wit**(Facebook's tool for intent recognition) to automate tasks subscribed by over 1 million customers.
- **OCR**: Integrated OCR into the reimbursement module, automating detail population from bills and reducing processing time by **90%**.

Personal Projects

Gumo | *Node JS, Mongo DB, NPM package*   **April 2021**
  * A web-crawler and scraper to extract data from a family of nested dynamic web pages, with added enhancements to assist knowledge mining applications.

NFL Health & Safety - Helmet segmentation and labeling | *Python, Pandas, NumPy*   **Dec 2021**
  * Published the findings as, "Real Time Multi-Object Detection for Helmet Safety". 19 May 2022, Arxiv

Publications

  * Venkata Krishna Chaithanya Nuthalapati, Real-Time Multi-Object Detection for Helmet Safety https://arxiv.org/abs/2205.09878.
  * N. Venkata Krishna Chaitanya, "Matrix Hashing with Two Levels of Collision Resolution," 2018 8th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2018 https://ieeexplore.ieee.org/abstract/document/8442607
  * Venkata Krishna Chaithanya Nuthalapati, Installation Automation Tool. Artificial Intelligence and Evolutionary Computations in Engineering Systems. Advances in Intelligent Systems and Computing, vol 668. Springer, Singapore. https://doi.org10.10079789811078682_24