

# Arjun Sundaram

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## EDUCATION

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- **George Mason University** Fairfax, VA  
*Bachelor of Science in Computer Science* Aug. 2020 – May. 2024  
Coursework: Data Mining, Natural Language Processing, Artificial Intelligence, Database Concepts, Object Oriented Programming, Low Level Programming, Data Structures + Algorithms, Advanced Algorithms, Computer Systems + Programming, Computer Networking

## EXPERIENCE

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- **Fannie Mae** Reston, VA  
*Software Engineer Intern* Jun 2023 - Aug 2023
  - Developed highly-scaleable API tests in the Karate Framework that validate important aspects of loan data and compare them to expected results. Built Java Utility programs that made the data extraction process more efficient.
  - Converted Springboot API Tests of loan-processing Java-Microservices to Gherkin feature files using the Karate API Testing framework. Created Cucumber JUnit test runners which execute the feature files.
  - Built Gradle applications for the testing microservices within the IntelliJ IDE. Configured important dependencies for the applications. Understood how these microservices get deployed to the Jenkins Pipeline and their movement through the different software development lifecycle environments.
  - Tools Used: Java, Springboot, Karate/Gherkin, AWS, JSON, Postman, Bitbucket, Gradle, Jenkins
- **Elevance Health** Indianapolis, IN  
*Software Engineer Intern* Jun 2022 - Aug 2022
  - Developed microservices to generate Kubernetes YAML object files and Bitbucket Repositories for RedHat OpenShift cloud-native applications created by a proprietary cloud tool.
  - Designed and developed REST API in Express JS that receives and destructures an input JSON payload to convert it to YAML using specific JavaScript libraries.
  - Built docker image with Tekton Pipelines. Deployed and tested code with Kubernetes Lens.
  - Tools Used: Express JS, Axios, Kubernetes, Lens, Tekton Pipelines, Postman, Bitbucket, YAML, JSON
- **INADEV Corporation** Tysons Corner, VA  
*Software Developer Intern* Jun 2021 - Aug 2021
  - Created website to store and display internal service requests submitted by employees
  - Created REST API in Python and Flask to connect both front end and back-end services
  - Configured SQLite Database + Flask SQL-Alchemy to store submitted API calls
  - Used CEEBIT (proprietary code platform) to configure front end layout of multi-page website.
  - Migrated endpoint security systems for new laptops from G Suite to M 365 as a side-task

## HACKATHONS

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- **(Award Winner) Georgetown University Hackathon:** Built the backend of a university study partner matching system which uses a Python recommendation algorithm to curate a list of potential matches. Used Streamlit, MongoDB, Python

## PROGRAMMING SKILLS

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- **Languages:** Python, Javascript, Java, HTML/CSS, SQL, C
- **Technologies:** Amazon Web Services, Flask, Pymongo, MongoDB, SQLAlchemy, Springboot, React.js, Node.js, Express.js, Karate/Gherkin, Git, Kubernetes, Scikit-learn, Jupyter Notebook