**Nicholas Adamou**

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**Profile**

Performance-driven full-stack software engineer with a demonstrated history of working on the front-end and

back-end of cloud-native applications. Experienced in a wide range of web-based technologies. Highly skilled in

software design, system architecture, software development, requirements analysis, and problem-solving.

Graduated *Summa Cum Laude* in Computer Science at *Cornell College*. Currently pursuing a Master of Science

in Computer Science at *Georgia Institute of Technology*.

**Work Experience**

**IBM** | Southbury, CTMay 2021 – Present

*Staff Software Engineer*, GLUI NG Squad

* Lifted & shifted IBM’s departmental applications’ chatbot to the ledger (GLUI NG) application.
  + Utilized *Box SDK* and *Java* *Spring Boot* to send video embeds and images to the chatbot.
  + Incorporated *JWT* authentication for meaningful user context.
* Integrated *Apache POI* to construct a *Java* *Spring Boot* micro-service to dynamically handle  
  Excel document generation and parsing for the Direct File Import (DFI) feature.
  + Leveraged *GoLang* and *Gin* to construct a micro-service to handle transferring   
    parsed Excel DFI files to the downstream import job server.
  + During quarterly close periods the DFI feature has supported ~150k files globally.
* Implemented an E2E file upload feature that supports files up to a maximum size of 6MB.
  + Using asset compression and chunking this process improved the overall upload performance

from ~40 seconds to < 5 seconds upload times with a file of 6 MB in size.

* Migrated IBM’s ledger application to *IBM’s Hybrid Cloud Cirrus* platform from *IBM Cloud k8s*.
  + Integrated *HCL AppScan* for *SAST* into the development docker build pipeline.
  + Integrated *Contrast Security* for *IAST* into the Development, QA, and Production environments.

**IBM** | Southbury, CTJune 2020 – May 2021

*Associate Software Engineer*, GLUI NG Squad

* Utilized *Artifactory* and *Travis CI* to construct a DevOps CD pipeline to *IBM Cloud k8s*.
* Implemented an E2E user authentication system utilizing *IBM SSO* and *JWT*.
  + Integrated dynamic session timeout handling for user sessions based on *JWT* expiration.
  + Construct JWT authentication middleware into each of the *Java Spring Boot* and *Go Gin* micro-services.
* *C*onstructed an E2E micro-service for handling sending user emails based on user activity.
  + Integrated *ThymeLeaf* for handling the creation of the emails.
  + Utilized *Java Spring Boot* and *JDBC* to construct the RESTful APIs and DB queries.
* Implemented an E2E Data Table feature for the Ledger Listing page.
  + Constructed a *Java Spring Boot* and *JDBC* micro-service for handling RESTful APIs.
  + Utilized front-end-based pagination for enhanced data table pagination performance.
  + Created an E2E system for column filtering that utilizes the browser’s local storage.
* Leveraged *Swagger* in order to construct API documentation for *Java, Go,* and *Node* micro-services.

**Hackathons & Technical Presentations**

**F&SC Hackathon** | *Demo Day Candidate*

*Full Stack Software Engineer*

* Developed a full stack digital assistant web application that leverages IBM Watson.
* Managed a group of four software engineers over the course of three days to develop our POC.
* Created and led presentation of the digital assistant application to a panel of IBM executives.

**HackCIO Hackathon** | *Voted Most likely to be used at IBM*

*Full Stack Software Engineer*

* Led the development of a full stack web application designed to encourage networking through matching.
* Integrated with *Google Firebase* to handle user login, account manipulation, and application data storage.
* Created and led presentation of application to a group of IBM executives and other hackathon participants.

**HackUIowa Hackathon** | *Demo Day Candidate*

*Backend Software Engineer*

* Developed a crowd-sourced stock analyzer and predictor; *How much do emotions affect a stock price?*
  + Leveraged *Python*, *Google Natural Language API,* *Twitter*, and *Wikidata query service*.
* Managed a group of 3 software engineers over two-day period to develop a POC.
* Created and led presentation of the application to a panel of HackUIowa judges.

**Education**

**Georgia Institute of Technology** | Atlanta, GAAugust 2021 - December 2024

*Anticipated degree:* Master of Science in Computer Science

**Cornell College** | Mt. Vernon, IAAugust 2018 - May 2020 *Degree Achieved*: Bachelor of Arts, Computer Science

Graduated *Summa Cum Laude*

*Cumulative GPA*: 3.98 out of 4.0

*Overall* Class Rank: **6**/261 (*2.29%)*