

## Carl Guan

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### OBJECTIVE:

Looking for software developer roles working with latest technologies and exciting hands-on projects; keen on learning better software design practices and the complete development lifecycle from production to deployment

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### TECHNICAL SKILLS:

*Coding:* Java 8+, Spring Boot, HTML5 & CSS3, JavaScript/TypeScript Angular 9+

*Operating Systems:* Windows, Linux

*Learning:* AWS Cloud, Docker, Jenkins, Kubernetes, Node.js

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### WORK EXPERIENCE:

#### Tata Consultancy Services | Software Developer

(Sept. 2017 – Present)

- Involved in development of several Java applications to eliminate day-to-day manual assignments and hours/days of wasted labor, dramatically improving productivity:
  - developed applications to read daily Spring Batch jobs log files and format them into excel files, originally a 2-3 hour process shortened to less than 2 minutes
  - assisted managers in rearranging excel files consisting of thousands of lines into a designated form to be uploaded to an SAP database, an otherwise unfeasible task by hand
  - automated remediation of security flaws in source code including SQL injection, cross-site scripting, and cross-site request forgery using vulnerability-specific flaw patterns and regular expression matching, which greatly expedited the process as it usually took days to replace all flaw patterns in a single file
- Troubleshoot and improved client site to greatly reduce latency, enhance UI and fix issues such as browser compatibility and execution flow
- Facilitated communication with offshore team via creating a Spring Boot REST API with MongoDB to automate email alerts

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### EDUCATION:

Bachelor of Science in Computer Science, *Rutgers University*

**GPA:** 3.3

May 2017

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### PROJECTS:

#### Network

Java application board game which plays against a human player or a computer program, utilizing MinMax algorithm to evaluate the next optimal move

#### Chess

Java application simulating chess, with different classes and methods accommodating each piece and logic to track game state; game displayed via print statements

#### GamesDiscount

JavaScript and Java web application that uses the CheapShark API to find and/or filter and display the cheapest deals on games sold by online vendors. Link: <http://www.gamesdiscounts.co/home>