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Ankita Gupta

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EDUCATION

- **Purdue University** **MS in Computer Science** **Anticipated Graduation: Aug 2018**
- **Punjab Technical University** **B. Tech in Computer Science** **Graduated: May 2014**

COMPUTER SKILL

Operating Systems:	Windows, Mac, Linux.
Programming Languages:	Java, Scala, Python, C, C++, Node.js, SQL, HTML 5, CSS, JavaScript, XML, Hive, PIG.
Technologies:	Spring Boot, AWS, Google Cloud Platform Maven, JUnit, TestNG, Jenkins, Hadoop Map Reduce, Webservices, SOAP, RESTful APIs, XML, Docker, MongoDB, Kubernetes, Global Cloud Platform.
Tools:	Eclipse, IntelliJ, GitHub, Tableau, Matlab, Quicksight, HP-ALM, RALLY, ServiceNow.
Databases:	MongoDB MySQL, SQL developer, PostgreSQL
Academic Courses:	Object-Oriented Design Pattern in Distributed Systems, Big data management and Analytics, Programming Languages, Intelligent Systems, Algorithms, Data Structures, Advanced Graphics, Cloud Computing, Image Processing, Database, Informatics.
Processes:	Test-driven development, Agile, Waterfall model, ITIL.

WORK EXPERIENCES

Software Engineer Intern, Zendesk **May 2018 – Present**
- Pairing with engineers and working on Scala based Zendesk products.
- Gaining experience while working on highly performant web services, RPC frameworks and relational databases.
- Producing design docs and write code/tests and deploying features to production.

Graduate Assistant, University Library **Mar 2017 – May 2018**
- Work with the users of specialized software systems to assist in the development of new software features, as well as the documentation of modern business practices.
- Assist office staff in further developing systems functionality around business practices.
- Update office forms and assist in developing efficiencies in Access database and update the library portal.
- Troubleshoot reported problems and work with the support team to evaluate these problems.

Research Assistant, Department of Computer Science **Feb 2017 – May 2017**
- Work with the team of Ph.D. students and professors of Computer Science Department to build a Health App.
- We are using **cloud-based technologies, machine learning algorithms** for the project. I am majorly involved in the development of **user interface and the connection of data** from intelligence system to the front end of the application.

Software Engineer, United Health Group (Optum) **May 2014 – Dec 2016**
- Experience with development in **Java Spring Framework.**
- Worked on **Rest – based web services** using **XML.**
- Experience of doing **impact analysis** of the proposed design and its impact on the existing system.
- Experience with **Agile Development, SCRUM**, **Test Driven Development** and **Programming methodologies.**
- Extensive experience in **developing Test framework** using **JUnit, TestNG** and **SOAP UI** tools using **Java**.
- Established an **Automated environment** of production moves using **VBA programming.**
- Had experience in **Quality Center and Application Life Cycle Management, Rally, JIRA** reporting tools for
  - Managing plans, requirement, test cases and bugs reporting.

Software Engineer Intern, Bharat Electronics Limited **Jan 2014 – May 2014**
- Worked on cell phone Jammer project with lead developers in the technical team.
- Brainstormed and worked on the coding of all the possible scenarios to jam the cellphone signals in the government jail premises using Visual Basic programming.

WORK PROJECTS

> *Financial Reporting. (UHG)*
- **Analysis** of design documents and technical specifications.
- Involved in **coding and Enhancement** of applications using **Spring framework** for **Java** programming.
- Created exception handling **maven** plugins to inject into project applications.
- **Testing code** by testing scripts using **JUnit** and **TestNG whenever new code is deployed using Jenkins and Maven**.
- Involved in **performance testing** and **volume/regression testing** for the impacted component of each install.
- Involved in **Post Production Support** for the jobs.
- **Performing Peer** and **Self-review** of all the items worked on, review of modules.
- Conveying weekly status of the project and participating in the technical meeting.

> *Automating Deployment Process. (*UHG*)*
- Designed the solution to automate the **process of deployment** of enhancement code to the production environment.
- The **manual process** of pushing the code to production is automated by VBA programming.
- The excel spreadsheet listing all the components to be moved was integrated with mainframe using **VBA macro**.

> *Job Monitoring & Code Review Macro (*UHG*)*
- To **monitor** the **execution of Batch jobs VBA macro** was used to reduce the manual effort of monitoring them.
- The application developed **detailed the status** of all the jobs ran so far with its execution time and Results as well.
- An **application** with the inputs of code to be review and parameters to review in that code was developed using **VBA programming.**
- The motivation behind this project was to save the time of peer review or code review by senior members of the team.

> *Scalability Field Expansion & ICD9/ICD10 changes. (UHG)*
- In the effort to allow CPS to handle a higher volume of claims, many fields were expanded in this project.
- Involved **in the End-end process** of **coding and enhancement** of the project.
- Involved in **performance testing and volume/regression testing** for the **impacted component** of each install.
- **Understanding** the existing application system and changes to application programs using COBOL, DB2, and CICS. Thus, preparing **the High-Level and Low-Level Design**.
- Doing **impact analysis** for impacted **COBOL** programs and making relevant **enhancements** to them.

ACADEMIC PROJECTS

> *Online Marketplace application* (Java RMI, Design Pattern, Docker)	**Current**
> *Analyzing performance of different programming languages* (using features as recursion)	**Fall 2017**
> *ETL process of LA Crime dataset* (Big Data, Hive, AWS-EMR, AWS – Quicksight, Tableau)	**Fall 2017**
> *Image Recognition System* (Python, Convolutional Neural networks, Tensorflow)	**Fall 2017**
> *Multiple Image filters in single applications* (Matlab)	**Spring 2017**
> *Visualization of players and teams in IPL* (D3 Programming, HTML, CSS)	**Spring 2017**
> *Health Application*. (Cloud-based Application using java programming)	**Spring 2017**

CERTIFICATIONS

- Java programming Language using java SE8.
- Spring Framework.
- C/C++.
- Lean Certified.
- HIX Certified (Health Care domain certification).