Sejal K. Parmar

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Education

University of Illinois at Urbana–Champaign (UIUC)   2017-2020 est.

Bachelors of Science in Computer Science with minor in Applied Statistics, GPA: 3.83/4.0

Certifications: Stanford Machine Learning (2018), Johns Hopkins Data Science (2018)

Skills

Technical Languages: C++, Java, Python, C#, JavaScript, Angular, HTML ,CSS, SQL, Bash, R, Cypher, Octave

Platforms: IntelliJ, Eclipse, PyCharm, WebStorm, Jupyter Notebook, Atom, R Studio, Android Studio, Vim, NiFi, JMeter

Foreign Languages: English, Spanish, Gujarati, Hindi

Work Experience

JP Morgan Chase & Co. | Chicago, IL

Summer 2018 Software Engineering Intern (Corporate & Investment Banking)   Jun 2018 - August 2018

- Designed and architected a data-driven solution stack, setup, and deployment methodology based off a problem statement
- Refactored a monolithic application into loosely coupled microservices that could be easily maintained and deployed

Capital One | Urbana-Champaign, IL

Spring 2018 Software Engineering Intern   Jan 2018 - May 2018

- Developed components for a large-scale cloud-based statement content and validation platform
- Worked on Rule Editing, Notifications, Routing, and Approver Actions workflows to create a cohesive user experience

Theia Vision | Urbana-Champaign, IL

Co-Founder and Software Team Member   Sept 2017 - May 2018

- Founded Theia Vision to provide a user friendly personal assistant to guide the visually impaired in their day to day activities
- Worked with convolutional neural networks using TensorFlow for real-time object detection and text-to-speech output
- Developed several methods to optimize object detection based on specific essential environments

Volunteer and Extracurricular Experience

CS 125 Course Staff | UIUC

Lab Course Assistant   Jan 2018 - May 2018

- Worked with the professor and held office hours to help students learn the core concepts of Java and OOP
- Assisted the TA during labs in teaching lessons and keeping students on task to ensure thorough understanding of material

Society of Women Engineers | UIUC

Engineering Open House (EOH) Chair for Team Tech   Sept 2017 - May 2018

- Led the Data/Information subcommittee to help create a data collection module/ app to report errors in Caterpillar machinery
- Headed Team Tech's entry in EOH and managed research efforts by holding members accountable for finishing their tasks

Projects

Evaluating the Effectiveness of Precondition Generation Tools | UIUC

PURE Research Program Participant   Jan 2018 - May 2018

- Wrote specifications for commutativity and idempotency of methods using Parameterized Unit Tests in C#
- Evaluated tools for precondition inference: testing + machine learning (black box) and test + dynamic analysis (white box)
- Performed a manual inspection to assess the goodness of preconditions based on correctness and complexity

Facetunes | UIUC

Primary Backend Developer   Aug 2017 - Dec 2017

- Developed an Android app that uses facial recognition to auto-generate playlists based on sentiment analysis
- Used the Spotify Android SDK to generate playlists on the backend
- Created the Camera Manifest for the frontend