

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 a minor in Applied Statistics

James Scholar (Honors Student) | GPA: 3.73/4.0

SOFTWARE ENGINEERING EXPERIENCE

Incoming Software Engineering Intern | Facebook | Menlo Park, CA | May 2019 - Aug 2019

Software Engineering Intern | Jump Trading | Champaign, IL | Jan 2019 - May 2019

- Designing and implementing a trading risk management regression suite to improve risk analysis for software deployment
- Analyzing trade data and patterns and comparing trends across deployment cycles to catch errors before code is pushed to the pre-production testing environment

Software Engineering Intern | JP Morgan Chase & Co. | Chicago, IL | Jun 2018 - Aug 2018

- Researched cutting-edge industry trends to design and implement a data-driven solution that standardized JPMC data input and storage processes across all lines of business
- Adapted 200 data analysis functions from a monolithic application into microservices via REST to decrease latency of retrieving and analyzing information by over 330 percent

Software Engineering Intern | Capital One | Urbana-Champaign, IL | Jan 2018 - May 2018

- Devised and constructed components for the rehaul of a large-scale cloud-based credit card statement validation platform to unify redundant functionalities and streamline validation actions
- Worked with clients to design and implement multiple workflows to create a clean interface and cohesive user experience

Co-Founder and Software Team Lead | Theia Vision | Urbana-Champaign, IL | 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

LEADERSHIP EXPERIENCE

Consultant | Illinois Business Consulting | UIUC | Sept 2018 - Current

- Researching industry best practices to create growth strategies and combat member attrition for a local country club
- Conducted primary data collection for a government entity to run damage control quantification models and analysis
- Developed a strategic adjustment plan to address flaws within governmental processes that caused the initial backlog

Engineering Open House Chair | Society of Women Engineers | UIUC | Sept 2017 - May 2018

- Led a sub-team of 8 to create a data collection/analysis app to report errors in Caterpillar machinery as in-field issues occurred
- Managed Team Tech's entry in EOH and research efforts for final deliverables to guarantee a smooth EOH experience

TECHNICAL VENTURES

PURE Researcher | Evaluating the Effectiveness of Precondition Generation Tools | UIUC | 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

Primary Backend Developer | Facetunes | UIUC | Aug 2017 - Dec 2017

- Made an Android app that uses facial recognition to auto-generate playlists based on sentiment analysis
- Managed a team of 3 to generate playlists on the backend using the Spotify Android SDK

SKILLS

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

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

Foreign Languages: English, Spanish, Gujarati, Hindi