

Karn Rahal

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Work Experience

Meta/Facebook

Jun 2020 – Present | Bellevue, USA

Senior Software Engineer

- Led a cross-functional team of 4 to build a full-stack system to ingest, dehash, analyze, and query scraped datasets ☑ which increased investigation throughput by 10x and saved >\$400k/year
- Led a cross-functional team of 3 to develop a scalable service to automate generation of training labels for ML classifiers which increased label volume by 6x
- Led development of web app to discover, track, and score potential scraping entities, which exposed 2000+ potential Instagram clone sites ☑ and saved 100+ hrs/yr of investigation time
- Scaled the team from 5 to 14 engineers through 1:1 mentorship, tech leading projects, and roadmapping
- Key technologies: Python, Hack/PHP, JavaScript, React, GraphQL, SQL, DataSwarm, Hive, Spark

Salesforce

Jun 2019 – Aug 2019 | San Francisco, USA

Software Engineer Intern

- Implemented dynamic overviews in search suggestions by building UI components and developing middleware services to aggregate and transform data from REST APIs
- Reduced SLOC by 93% for the previews support process by developing an extensible rendering mechanism
- Key technologies: Java, JavaScript, Spring, JUnit

One45 Software

Apr 2018 – Dec 2018 | Vancouver, CA

Software Engineer Intern

- Improved module usage by 13% by integrating an analytics framework, using insights to suggest new features
- Increased report tool usage by 22% by developing features and improving the UI for better customer usability
- Key technologies: PHP, JavaScript, SQL, Symfony, jQuery, PHPUnit

Education

University of British Columbia

Sep 2014 – May 2020 | Vancouver, CA

B.A.Sc. in Computer Engineering (GPA: 3.2)

- Relevant Coursework: Algorithms & Data Structures, Machine Learning, Operating Systems, Computer Networks, Software Engineering, Linear Algebra, Statistics, Human-Computer Interfaces, Software Project Management

Projects

Parkera

Smart Parking Meter

- Built a smart parking meter that utilized a Raspberry Pi, computer vision, OCR, IoT sensors, and NFC to automatically park vehicles. Developed, tested, and published a mobile app to help users find parking stalls, track parking sessions, and manage their account.

Shuffle

Shared Spotify Playlist Generator

- Developed a mobile app that builds a personalized Spotify playlist for a user and their friends based on underlying playback history. Won “The Wolfram Award” out of over 130 teams at nwHacks.

Skills

Languages (Proficient) Python, JavaScript, PHP, SQL (Familiar) C/C++, Java, HTML5, CSS3

Libraries & Frameworks React, GraphQL, REST, DataSwarm, Node.js, Django, Symfony, Spring, JUnit, PHPUnit

Databases MySQL, Postgres, Hive, Spark, MongoDB **Tools** Amazon Web Services, Git, Mercurial, Android Studio