ram Grover

Software Engineer · Computer Science Major · University of Waterloo

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Education

University of Waterloo · Honours Bachelor of Computer Science

• Cumulative GPA: 3.47 | Major GPA: 3.69

Skills

Languages/Frameworks Python · JavaScript/HTML/CSS · React · Ruby on Rails · C# · SQL Databases MySQL · PostgreSQL **Tools** Git · AWS (S3, Relational Database Service) · Postman

Work Experience

Redfin · Incoming Software Engineer Intern, Home Valuation

• Building pricing and estimation tools for accurate valuation of homes, powering Redfin's iBuyer service using Java and React

Scribd · Software Engineer Intern, Payments

- Reduced payment collection pipeline run time by 96%, by identifying and removing bottlenecks in database queries
- Built a logging system from scratch to track over 1 million user accounts, for early detection of account-related suspicious activity
- Improved user satisfaction by 12%, by finding and addressing flaws in the promo code processing workflow
- Tech Utilized: Ruby on Rails, MySQL

Flipp · Software Engineer Intern, FAdmin

- Maintained Flipp's monolith FAdmin web app that powers their platform, by processing over 2M products and 10k flyers per month
- Developed robust web scrapers for various retailer websites to scrape vital product information that would be consumed by millions of users
- Automated ingestion and sorting of digital flyer data from retailers for timely processing on FAdmin
- Tech Utilized: Ruby on Rails, MySQL, AWS S3

NuSoft Solutions · Software Engineer Intern

- Independently built, tested and deployed features for a business card scanner app with 1000+ users on the Play/App store
- Improved processing time on high-resolution images by 48% by integrating image compression into the pipeline
- · Significantly enhanced user experience by implementing authentication token renewal to remove redundant user logins
- Tech Utilized: Ionic Framework, Microsoft Azure Cloud Platform, Angular, TypeScript, HTML/CSS

Dye & Durham Corporation · Software Engineer Intern

- · Fully developed, tested and shipped RESTful APIs that interacted with government systems to validate business registration data
- Tech Utilized: ASP.NET (C#), SQL Server, Postman, JavaScript, HTML/CSS

BMO Financial Group · Software Engineer Intern, Capital Markets

- Streamlined trader operations on internal web app by developing trader requested features to optimize usability
- Tech Utilized: ASP.NET (C#), SQL Server, Oracle Database, HTML/CSS

Projects

Pathfinding Algorithms Visualizer vikgrover.me/pathfinding-algorithms-visualizer

• Built a performant visualization tool for pathfinding algorithms such as Dijkstra's, A* (A-star), Greedy Best-First Search and more

· Incorporated ability to draw/generate weighted obstacle mazes and patterns to allow for an interactive experience

• Tech Utilized: React, JavaScript, HTML/CSS

FlappyBird AI github.com/VikramGrover/flappy-bird-ai

- Developed a playable FlappyBird game with similar-to-original physics and visuals
- Integrated a self-learning AI player that uses the NEAT evolutionary algorithm to incrementally generate neural networks with improved performance
- Tech Utilized: Python, PyGame, NEAT-Python Library

Image Repository github.com/VikramGrover/image-repo

- Designed and developed a web app to serve as an image gallery for cloud-stored images
- · Leveraged Google Cloud Vision API's image labelling feature to support content-based and reverse image querying within the app
- Tech Utilized: Ruby on Rails, PostgreSQL, AWS S3 + Relational Database Service, Google Cloud Vision API, HTML/CSS

"AutoPipe": Flipp Hackathon Project

- Designed and developed a POC smart web scraper that aimed to reinforce Flipp's unreliable web scraping workflow
- Utilized IBM Watson Natural Language Understanding to train deep learning models to identify and scrape relevant content from web page
- Tech Utilized: Django (Python), IBM Watson Natural Language Understanding

Sep. 2016 - June 2021

June 2021 - Aug. 2021

Jan. 2020 - Apr. 2020

May 2019 - Aug. 2019

Sep. 2018 - Dec. 2018

Jan. 2018 - Apr. 2018

May 2017 - Aug. 2017

Mar. 2021 - Apr. 2021

Dec. 2020

Aug. 2020

July 2019

