Sangam Kaushik

San Francisco, CA
(415) 830-6206
sangam.k70@gmail.com

LinkedIn: linkedin.com/in/sangamkaushik   **GitHub:** github.com/sangamkaushik   **Portfolio:** sangamk.com

LANGUAGES AND TECHNOLOGIES

Proficient: Ruby, Rails, ActiveRecord, JavaScript, ReactJS, Flux, jQuery, AJAX, C#, SQL, MySQL, PostgreSQL, HTML5, CSS3, Bootstrap, RSpec, Capybara, Git, Heroku
Exposure: Google Maps API, Slack API, Uber API, Unicorn, Redis

RECENT PROJECTS

Uber Slack | Back-End Engineer | live | github   2016
Open source plugin that integrates Uber into Slack, allowing for scheduling of rides through Slack commands.
- Used by 800+ individuals, received 150+ likes on product-hunt, featured on Uber Developer Blog.
- Engineered Ruby on Rails RESTful API with exposed endpoints; allowing for Slack service to call specific methods to request rides, check price estimates, cancel rides, and status updates.
- Wrote integration tests following TDD utilizing RSpec, Capybara, VCR and WebMock to test OAuth across APIs.
- Incorporated Uber API into Ruby on Rails backend using OAuth to ensure that app could call rides for a user.
- Lowered latency of DB read/write by factor of 7 by using Unicorn to enable virtual multi-threaded processing.
- Utilized Redis key-value storage to cache bearer tokens from Uber and Slack, allowing for $O(1)$ lookup.

FastRCars | Full-Stack Engineer | live | github   2016
Exotic car rental club inspired by AirBnb design for members to have access to a collection of luxury vehicles.
- Architected a RESTful Rails API to serve a single page web app in conjunction with a PostgreSQL database.
- Constructed front-end views using ReactJS with Flux architecture to componentize the views.
- Designed a custom Filter Store to track map bounds and advanced filters; Integrated Google Maps API with search filters for dynamic searches to streamline AJAX requests to Rails server.
- Built session authentication system, hashing passwords with BCrypt to ensure a high level of DB security.
- Designed UI/UX inspired by AirBnb using heavily customized Bootstrap components with custom CSS3.

Space Shooter | Front-End Engineer | play | github   2016
Arcade style space invader inspired browser game where players must finesse through barrage of alien fire.
- Followed JavaScript OOP design and prototypal inheritance to ensure modular code base of the game logic.
- Generated dynamic gameplay in HTML5 canvas element by utilizing vector math for game state updates.
- Enhanced visual appeal by rendering game states at 32 FPS and garbage collecting out-of-play objects.

EMPLOYMENT HISTORY

Back-End Engineer | Kaushik Algorithms   2013 - 2015
- Developed trading algorithms in C# for modeling financial strategies and market indicators, resulting in instantaneous order entry, reducing process latency by 99%.
- Optimized key metrics leading to increase in application of trading strategies across multiple indexes by 500%.
- Diagnosed failure points across 5 years of financial data for 50+ financial instruments through simulating and back-testing strategies with Monte Carlo methods using NinjaTrader and C#.

Sales and Delivery | Unilever   2014 - 2014
- Averaged $50,000+/mth in ice cream sales, exceeding target sales by 34% by fostering key client relationships.

Project Coordinator, Trainee | Kiva Systems (Now Amazon Robotics) - Gap Canada   2010 - 2010
- Implemented parallel testing and liaised with clients for solution development on project valued at ~$10 million.
- Collaborated on team of 4 engineers and 5 technicians in assembly of industrial robots and robotic equipment.

EDUCATION

B.Eng. Mechanical Engineering, Minor: Finance, *Ryerson University, Toronto, ON*   2009 - 2014