

Ankit Gupta

Visual Analyst & Software Developer



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Skills

Visualization & Analysis

- Quantitative Data Analysis
- Qualitative Research Methods
- d3.js
- Tableau
- R

Programming

- Ruby on Rails
- Javascript
- jQuery
- CSS
- Bootstrap
- Java
- C/C++
- Python
- Groovy

Other Skills

- Test-driven development
- RESTful API design
- OAuth

Awards

Graduate Fellowship
2016 • 2015 • 2013

Andrew Wade Scholarship
2016 • 2015

Profile

Visual analytics expert and software developer with over 5 years experience in building web and desktop applications for analysis of text, video and health data. Excellent interpersonal skills used in working collaboratively with teams of designers and developers for creating solutions unique to the needs of the stakeholders. Proven ability to meet deadlines while ensuring proficiency in the outcome.

Experience

Full Stack Developer & Researcher

since Apr 2015

FitViz Project, Arthritis Research Canada, Canada

- Collaborated with several stakeholders to understand the system and design requirements for the application
- Developed a web application to allow clinicians to monitor physical activity of arthritis patients by visualizing objective measures
- Developed user-friendly interactive visualizations providing insights about patients everyday data
- Implemented an algorithm to extract active and sedentary behaviours from Fitbit data

Key Achievement: Created the only open-source library to integrate Fitbit data into Ruby applications; over 12000 downloads (available at rubygems.org)

Full Stack Developer & Researcher

since Sep 2016

SWAPP Project, Simon Fraser University, Canada

- Architected the system design based on the UI and the clinical team requirements
- Implemented a web application which enables caregivers and doctors to effectively monitor behaviours of children with sleep-related disorders
- Implemented a reporting module to analyze data and generated a dashboard to aid doctors in diagnosis of disorders

Software Developer

Sep 2014 – Aug 2015

Moving Stories Project, Simon Fraser University, Canada

- Developed a desktop application to allow researchers to conduct scientific reliability studies of a dance movement model
- Developed a web interface for researchers to annotate segments of dance videos with the movement model
- Collaborated with artists and researchers to identify the requirements and devise creative solutions for annotating videos

Java Developer

Apr 2012 – Sep 2014

CZSaw Project, Simon Fraser University, Canada

- Implemented a new semantic model for relational queries
- Increased efficiency by automating the build and download process
- Improved performance and fixed bugs in an existing codebase for a text analytics software

Education

PhD (Interactive Arts & Technology)

2013 – present

Simon Fraser University, Canada

MSc (Computing Science)

2012

Simon Fraser University, Canada

BE (Computer Science & Engineering)

2010

Devi Ahilya University, India