PRAMOD KOTIPALLI

pramodk@gatech.edu
pramodk.net
+1 (425) 200-5436
pramodkotipalli
k-pramod

SKILLS

PROGRAMMING LANGUAGES
Python
Javascript/TypeScript
C♯
Java

APPLICATION FRAMEWORKS
Django + REST
ASP.NET MVC + WebAPI

WEB DEVELOPMENT
AngularJS
Responsive HTML/CSS
Razor/CSHTML
Google Analytics

APPLICATION DEPLOYMENT
Heroku
Microsoft Azure
Red Hat OpenShift

OTHER PROFICIENCIES
Git + Git flow
n-tier application architecture
designing RESTful APIs
Postman
LaTeX

DATABASES
PostgreSQL
MySQL

IDES + ENVIORNMENTS
PyCharm
IntelliJ IDEA
Visual Studio 2015 + ReSharper
Google Apps Script
Atom

APIS + LIBRARIES
jQuery
Google Apps
Django Channels (web sockets)
KaTeX/MathJax
scikit-learn

SUMMARY

Results-oriented software engineer specializing in web application development. Worked on numerous personal and professional projects gaining significant experience in Python, Django, AngularJS, and Microsoft's ASP.NET C# framework. Also studying how machine learning and computer vision techniques can be applied to wearable sensors to predict future health outcomes.

EXPERIENCE AND RESEARCH

Software engineer · School of Mechanical Engineering, Georgia Tech — January 2016 to Present

- Built service used by 2,500 students and judges in Georgia Tech's Capstone Design Expo.
- Integrated user feedback for highly-initiative UX significantly reducing user on-boarding.
- Collaborated through Git-centered workflows with a tight feedback loop from advisers.
- Technologies used: Django, PostgreSQL, Git, jQuery, responsive HTML/CSS design.

Undergraduate research assistant · School of Interactive Computing, Georgia Tech — June 2016 to Present

- Developing predictive health analytics for heart disease patients with Professor James Rehg.
- Researching algorithms at intersection of machine learning, computer vision, and signal processing.

EDUCATION

Georgia Institute of Technology
Bachelors of Science Computer Science 2019
GPA: 4.00/4.00 (Faculty Honors)
Relevant coursework: Machine Learning, Data Structures & Algorithms, Assembly & C, Object-Oriented Design

PROJECTS

RichCaptions: symbolic math captions for educational videos

- Identified and reconciled deficiency in viewing of educational videos on YouTube or Khan Academy.
- Recognizes that students learn better by seeing captions in math/science symbols instead of plain text.
- Designed/implemented UX for captioning and viewing videos with LaTeX-rendered math captions.
- Technologies used: AngularJS, KaTeX.js, Django REST Framework, YouTube API, PostgreSQL, Heroku.

Handshake: connecting people online through physical handshakes

- Developed hardware prototype for smart watches wearers to shake hands and connect online.
- Allows professionals to easily network at conferences and for students to easily connect with recruiters.
- Implemented RESTful API backend with ASP.NET and Microsoft SQL hosted on Azure.
- Won 2nd place in Microsoft Prize category at HackATL, a tech startup hackathon at Emory University.

MetroSync: a web app to help musicians rehearse together

- Designed/implemented web app featuring metronome synced across devices aiding in musical practice.
- Allows a group leader to set tempo and time signature; plays synchronously on subscribed followers.
- Technologies used: Django Channels (web sockets), AngularJS.

AWARDS

Faculty Honors · Office of the Registrar, Georgia Institute of Technology — 2016
Awarded to full-time students who earn a 4.00 GPA in an academic term.
Earned in Spring 2016 and Summer 2016 terms.

Microsoft Prize · HackATL: startup-oriented hackathon at Emory University — October 2015
Awarded for developing smartwatch prototype that allows people to connect online by simply shaking hands.

ACTIVITIES

<gt-webdev> · Marketing lead, officer, speaker — January 2016 to Present

Georgia Tech Leading Edge leadership development program — January 2016 to May 2016