

Ritwik Takkar

Upson 529, Ithaca, NY • rt398@cornell.edu • ritwiktakkar.com • linkedin.com/in/rtakkar/

Education	CORNELL UNIVERSITY Ithaca, NY PhD, Systems Engineering, 08/2021 - 05/2026 Researching the implementation of blockchain, edge computing, and, digital twins to spearhead the transformation of current urban governance paradigms toward smart cities. <i>Relevant Courses:</i> Learning with Big Messy Data, Model Based Systems Engineering SYRACUSE UNIVERSITY Syracuse, NY BS, Computer Engineering, 08/2017 – 05/2021, magna cum laude <i>Relevant Courses:</i> C# & Windows Programming, Computer Architecture, Database Management, Discrete Math, Operating Systems, Object-Oriented Design, Systems Programming, VLSI Design
Experience	CORNELL UNIVERSITY, COLLEGE OF ENGINEERING (Spring 2022) Ithaca, NY Teaching Assistant for ENMG5900 / CEE 6910 - Project Management/Leadership <ul style="list-style-type: none">Fostered learning of course material through in-person and virtual discussions, email responses, and participation in an online forum for a class of over 170 students PARALLELCHAIN LAB (Summer 2021 & 2020) Hong Kong Software Engineer Intern <ul style="list-style-type: none">Built an asset tokenization app for iOS and Android, incorporating REST APIs and biometric authentication, using the Flutter SDKImplemented a multi-biometric authentication flow consisting of facial, voice, and palm recognition during user registration on iOS with React Native SYRACUSE UNIVERSITY, EECS (Spring 2021 & 2020, Fall 2019) Syracuse, NY Academic Excellence Workshop (AEW) Facilitator <ul style="list-style-type: none">Planned and executed biweekly lectures in a one-credit workshop for undergraduates to enhance their understanding of concepts in Calculus 1 and Precalculus
Projects	Impact of Earnings Calls on Next-Day Common Stock Opening Price <i>Python, Machine Learning (Regression, Classification)</i> ritwiktakkar.com/projects#earnings <ul style="list-style-type: none">Aimed to uncover how a company's earnings call affects their next day opening price using data from 48,000 trading days through regression and binary classification JCP-Stack: Web Scraper for ACM, Springer, and IEEE Xplore Digital Libraries <i>Python, Selenium, Beautiful Soup</i> ritwiktakkar.com/projects#jcp-stack <ul style="list-style-type: none">Designed a web scraper to collect and store article results based on journal/conference title and date published from the ACM, Springer, and IEEE Xplore digital libraries ShortenMyURL: iOS and Android App (500+ Units Downloaded on App Store) <i>Dart (Flutter)</i> ritwiktakkar.com/projects#shortenmyurl <ul style="list-style-type: none">Developed a lightweight URL-shortening mobile app, incorporating the MVVM design pattern and using a third-party API to fetch the shortened URL, with the Flutter SDK
Skills	Python, C, C++, C#.NET, Dart (Flutter), Git, Java, JavaScript (React Native), SQL, Bash, LaTeX
Awards, Honors	Five-Year Funding Award (US\$357,335), Cornell University (2021); Systems Engineering Departmental Fellowship (US\$35,734), Cornell University (2021); magna cum laude , Syracuse University (2021)