

Chakshu Gautam

CONTACT INFORMATION	chaks.gautam@gmail.com Mumbai, India	+919415787824
INTERESTS	Full Stack Web Dev, Android Development, Scalable and Object Oriented approach to software.	
EMPLOYMENT	<ul style="list-style-type: none">• Senior Software Engineer (Carnot) (Sept 2016 - Present) Android App (Native) – Implemented v2 (UI changes and new features). Testing setup using espresso and JUnit4 for business logic. Services for DB interaction (from Firebase and API) and I/O using Rx. Refactoring code (via 'Effective Java' and 'Clean Code'). Configuring build processes for single click build for various build variants. Setting up Bug and crash report management system (ACRA and Sentry; mailing stack trace to me). Backend (Django) – Maintenance and new feature development along with API development; Built load testing framework for the backend; Generic data transfer library to transfer data from Django models to BigQuery; Refactoring sync code to async code. (Python 3.5); Heroku dyno manager; Fleet Dashboard (React + Redux, IndexedDB, Node) – First project which I started from scratch and got complete freedom for the architecture, framework etc. Offline first app with service workers to interact with backend APIs and storing data; DB services using workers; Firebase for real time updates and desktop notifications. Micro Services/Misc – Building a debugging dashboard (RethinkDB for real time updates) for the hardware team; Complaint management system (Google App Script connected to backend); Mailing system (Google sheets/Google App Script; Rest all were going to spams and google sheets help make a quick dashboard) Connecting marketing and operations systems to the backend.• Co-Founder/Full Stack Developer (TubeBus) (Dec 2015 – Sept 2016) Backend – A Django backend for customer facing website, agent web app, Android app, etc. Integrating payment gateway, GPS in buses and third party APIs for booking tickets. Deployment at Heroku and AWS. Android App – The v1 of the customer app for ticket booking which included GPS tracking and geo-fencing and payment gateway integration (Razorpay), Firebase integration. Co-developed the subsequent versions. Embedded Systems – Co-developed an IoT media box (using rpi) which creates a local media server for the bus travelers, sends GPS coordinates to the backend, a surveillance system with IP camera, open GPIO pins for various amenities such as Engine, AC and doors to remotely monitor and control them. The backend was developed in Flask and NGINX. Web App – A Django website for customer and agents. SPA for the IoT box for movie selection and streaming. Scraping Framework (Celery) – A framework for anonymously (TOR) scraping websites @ 1M pages/day.• Backend Developer (MovinCart) (June 2015 – Dec 2015) Backend – Django based backend. Admin panels and Django template coupled views. Developed scrapers and growth hacks (Python). An NLP based code to check if the downloaded data from 2 separate websites is same.• Assistant Professor (AMITY University) (Sept 2014 – Aug 2015) Taught Civil Engineering at Department of Architecture, Planning and Civil Engineering.• Research Assistant (IIT Delhi) (Dec 2014 – June 2015) Stability and Sloshing in Liquid Storage Tanks under Earthquake.• PGMT (Shapoorji Pallonji) (June 2013 – Sept 2013) Worked as a BIM (Building Information Modelling) Manager. Making processes for debottlenecking the BIM activities at the firm and using it for billing and mod.	
PERSONAL PROJECTS	Home Automation (ongoing) – Automating the lamps, AC and other electrical appliances, installing surveillance system (both hardware and Android app), on demand streaming of movies on TV and recording STB, etc. Dominos Slot Machine Hack – Getting 50% off coupons from a slot machine by solving captchas in opencv. Matching products in different E-Commerce sites – Similar to what BuyHatke does. Mac Menu Bar Scripts – Scripts for customizing menu bar showing internet speed, RAM etc.	

SKILLS	<p>Languages: Python, Java, JavaScript, HTML, CSS</p> <p>Frameworks: Django, Flask, Bottle, Android, Bootstrap, NodeJS + Express (Learning), bash.</p> <p>Databases/Serialization: SQL (PostgreSQL, SQLite), No-SQL (MongoDB, Redis, RethinkDB), JSON.</p> <p>Servers/OS: Gunicorn, NGINX, NodeJS, Ubuntu.</p> <p>Cloud and Virtualization: Heroku, GCP, AWS (EBS, EC2, RDS), DigitalOcean.</p> <p>Others: Firebase, Google Analytics (Android and Web), Git, Celery, TOR, Google Maps APIs (Extensively).</p>	CGPA 8.0
EDUCATION	<p>Master of Technology, Structural Engineering (Civil)</p> <p>Indian Institute of Technology, Delhi (IITD)</p> <p>Bachelor of Technology, Civil Engineering</p> <p>GCET, Noida.</p>	76%
OTHER	Hobbies: Chess, Reading Books, Economics, Embedded Systems, Sarcasm, Table Tennis, Google Fanboy.	
INFORMATION	<p>Languages: English, Hindi. (struggling in learning Marathi)</p> <p>Relocation preference: Willing to work remotely or relocate to a new city/country.</p>	