

# RAMESH DHUNGANA

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Experienced Software Engineer with more than 6 years of experience in full-stack development, adept at guiding products from ideation to fruition. Proficient in collaborating at corporate cross-functional teams, aligning efforts to achieve strategic objectives. Demonstrated expertise in successfully spearheading multiple startup projects, taking them from inception to beta stage.

## PROFESSIONAL EXPERIENCE

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Old Dominion University, Norfolk, VA

01/2022–Present

### Graduate Research Assistant/ Lab Lead

- Led full-stack development, including frontend (React Js) and backend (Node Js), database modeling(MySQL, RDS), and hosting, for the 'vsorts.com' project which successfully helped to raise \$300K in funds to support its Phase II.
- Conceptualized and developed a User Management Portal using Angular, MongoDB, and Spring Boot, effectively overseeing 10's of thousands of users for the Hampton Roads Planning District Commission (HRPDC) in Chesapeake, Virginia.
- Conceived and accomplished backend solutions, encompassing the creation of scrupulously structured MySQL database models, to drive success across a portfolio of 7 lab projects.
- Deployed and managed applications using GitHub, GitLab, Linux, PM2, AWS EC2, S3, Route 53, load balancers, RDS, GoDaddy DNS, Nginx, Firebase and CloudFlare hosting.
- Concerted with internal teams to spearhead comprehensive quality assurance testing of existing applications, adeptly identifying and resolving bugs, ensuring on-time delivery of resolved issues for 8 web apps and 2 mobile apps.
- Spearheaded a technical team in the development of a progressive application, integrating features for the sale of digital coupons and online food purchases for the Taste of India 2023 event, which attracted a crowd of 10,000 attendees in a single day.

Map Communications, Chesapeake, VA

05/2023–Present

### Application Development Intern

- Collaborated with mobile development teams to complete 250 tickets on the "Ruby" mobile app using Xamarin forms in 3 months, exceeding project deadlines by 2 weeks.
- Designed, architected, and deployed a highly secure Awe pauser web application using Next.js and Spring Boot. Empowered Map Communication Agents to pause/resume PCI compliance calls in real-time while capturing comprehensive recording statistics.
- Contributed significantly to core teams on the 'echo' Java application, addressing and resolving 18 Jira tickets.

Freelancer at Upwork.Com, San Francisco, CA, USA

08/2019–12/ 2021

### Full Stack Web developer

- Led the full-stack team of 4 US-based startups including [stubenefits.com](https://stubenefits.com) and [buzzarr.com](https://buzzarr.com), and backend development of [marinavillage.app](https://marinavillage.app) and [schoolvillage.org](https://schoolvillage.org); ensuring beta release 2 months prior to the targeted due date.
- Rigorously assessed software requirements, architected a streamlined NoSQL database with Firestore, and performed a comprehensive code modularization and refactoring; achieving an exceptional 80% reduction in code redundancy.
- Streamlined DevOps operations by automating multi-environment deployments, proficiently managed Jira and GitLab tickets, and seamlessly integrated automated CI/CD pipelines on GitHub Actions and GitLab, leading to a 90% acceleration of deployment workflows.
- Leveraged serverless Google Cloud Functions, event-triggered cloud services, Cloud Schedulers, Logs, App Engine, Compute Engine, APIs, and various cloud resources, including Cron Jobs, File Servers, Firestore, Firebase Cloud Messaging, Cloud Storage, and more, to enhance the performance and functionality of applications.

- Integrated API services from 4 FinTech platforms, including [plaid.com](https://plaid.com), [stripe.com](https://stripe.com), [cassinfo.com](https://cassinfo.com), and [rightfoot.com](https://rightfoot.com), utilized webhooks, web sockets, file server, and cloud scheduler background processing to develop a financial application tailored to automate employee student loan payoffs as part of employer benefits.
- Orchestrated the architecture, engineering, and leadership as a backend engineer for the development of a Mobile Safety and Information System meticulously tailored for Marina, School, and HOA villages.
- Applied microservices using cloud function and API services from [intrado.com](https://intrado.com) to facilitate rapid communication with 911 during emergencies.
- Executed robust authentication solutions, incorporating diverse methods such as Basic and JWT tokens, [shibboleth.net](https://shibboleth.net) authentication, integration with [auth0.com](https://auth0.com) for advanced and seamless social logins, and secure Firebase Authentication from [firebase.google.com](https://firebase.google.com) to enhance user access and data security.
- Achieved 100% Job Success, completed +15 full-stack applications, earned over \$95k, worked over 6000 hours, and fostered long-term relationships with clients at upwork.com.

Insight Workshop, Kathmandu, Nepal

05/2018–07/ 2019

### Software Engineer

- Created an e-commerce web application for a CD-based software company using Django, resulting in a 15% increase in sales traffic.
- Engineered Linux based system operations script and backend APIs for a custom US-based embedded system, WiRFi, enabling remote control of ATM vending machines. Delivered a highly efficient beta version of the product to the client with a 95% success rate.
- Independently devised and built a responsive event registration web application from scratch, leveraging Angular and Django Rest Framework (DRF) in a 3-month timeframe.
- Served as a programming instructor, mentoring and guiding 12 company interns and junior developers in both frontend and backend web application development.

Prixa Technologies, Lalitpur, Nepal

09/2017–04/ 2018

### Web Developer

- Implemented a responsive website approach for 4 popular national news websites in Nepal, increasing mobile traffic by 40%.
- Coordinated with a team of 5 developers to envision and implement internal customer management software.

## EDUCATION

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Old Dominion University, Norfolk, VA, USA

01/2022–Present

### Master's in Computer Science

- Granted Graduate Research Assistant Position at Hands-on Lab
- Lab lead at Hands-on Lab with lab team of 8 graduate students.

Western Regional Engineering Campus, Tribhuvan University, Nepal

11/2013–08/ 2017

### Bachelor of Electronics and Communication Engineering

- Campus faculty topper at multiple semesters with 72.11% overall percentage
- Awarded with the best Minor Project and Final Year Major Project on campus.

## SKILLS

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**Languages:** JavaScript, Typescript, Python, HTML, CSS, SCSS, Java, C#

**Frameworks/ Libraries:** Angular, React, Node, Firebase, Cloud Functions, Django, Django Rest Framework, Flask, Next Js, Spring Boot

**DevOps:** AWS ec2 instance, s3, Route53, Load balancer, security groups, Nginx, Google Cloud, CI/CD

**Databases:** MySQL, firestore, MongoDB, PostgreSQL, NoSQL

**Software Development:** Jira, GitHub, GitLab, software development cycle, GitLab, Agile/Scrum