Shantini Vyas

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	https://github.com/pershanti	https://shantinivyas.com

Summary
I'm a self-taught software engineer, formerly a biological researcher in the field of virology.
While I'm most experienced in iOS development, I'm also proficient in Java and Python.
I'm passionate about solving current problems in technology via innovative and well-structured software.

Professional Experience

Owl Cameras Inc., Palo Alto, California
Software Engineer 2018 – present
- Development of iOS companion app for the Owl Car Cam, a personal and enterprise security solution
- Design and execute features using Swift 4
- Navigate challenges in app performance, networking, and user experience
- Work in an Agile environment to execute software sprints
- Work with product, QA, and other engineering teams

Pawsy, Palo Alto, California
Founder & CEO 2018 – present
- Pawsy is a social network for dogs and their humans.
- I created the service as an iOS app, and am preparing an MVP for beta testing.
- Prototyped front end using Adobe Creative Suite, and serverless backend using Express.js, Amazon Web Services, and Cloudinary.
- Winner at 2017 iOS Developer Camp.

Computer Science Instructor, Palo Alto, California
Freelance Instructor 2017 – present
- Taught introductory programming in Python and app development in Swift.

HappiLabs.org, Palo Alto, California
Technology Solutions Associate 2016 – 2017
- Developed technologies to automate and improve supply chain processes for biotech companies.
- Adapted Google Home and Amazon Alexa assistant platforms to implement voice ordering in the laboratories of several clients.
- Created an internal PostGres database deployed on Amazon Cloud to track ordering.

4D Molecular Therapeutics, San Francisco, California
Research Associate II 2015 – 2017
- As one of the first 10 employees of the company, I played a critical role in research and development of biological payload delivery systems, as well as establishment of the research facility.
- Designed and performed experiments to screen products for viability and purity.
- Developed custom Python-based software to automate complex genomic alignments and analysis. Created a SQL database to manage genomic data.

University of California, Davis, California
Staff Research Associate, Center for Comparative Medicine 2014 – 2015
- Performed research to develop vaccines for human cytomegalovirus.

US Army Medical Research Institute of Infectious Diseases, Frederick, Maryland
ORISE Postgraduate Research Fellow   2012 – 2014

- Designed and conducted experiments to study the effects of hemorrhagic fever viruses on immune pathways.
- *Accepted Poster*: Shantini Persaud, Shannon Taylor, Eric R. Fleming, Connie S. Schmaljohn - "Arenavirus Inhibition of NF- kB," 2013 American Society for Virology.
- *Oral Presentation*: Shantini Persaud, Shannon Taylor, Eric R. Fleming, Connie S. Schmaljohn - "Lassa Virus Inhibition of NF- kB," NICBR Research Festival.

Skills   **Computational**: Swift, iOS, Data Structures & Algorithms, Python, Django, Flask, Javascript, Mean, Java, HTML/CSS, SQL, PostGres

Biological: Data Analysis, Confocal Microscopy, Experimental Design, Data Analysis and Figure Creation, Molecular Biology, Immunology, and Virology

Education   **Coding Dojo**, San Francisco, California   2017
Software Engineering Apprenticeship

- Winner of Coding Dojo iOS Hackathon
- Developed iOS applications in Swift, including the game Moon Doggy using SpriteKit and GameKit
- Deployed on AWS full-stack Django applications with login/registration and MySQL backend
- Integrated APIs such as Google Maps, Apple Maps, and Facebook

Johns Hopkins University, Baltimore, Maryland   2008 – 2012
B.A., Public Health Studies
Relevant courses: Java Programming, Statistics, Physics, Calculus, Differential Equations

References   Available upon request.