



PARAG BHATNAGAR

DESIGNER
DEVELOPER
ILLUSTRATOR

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EDUCATION

YALE-NUS COLLEGE 2013-17

B.S. Math and Comp Science
GPA: 4.2 / 5.0

YNC_Hacks: President and
Co-Founder
Visual Arts Society President

YALE UNIVERSITY 2016

Yale VISP Programme

ANGLO-CHINESE JC 2011-12

6 As at A Levels (Sc. Stream)

Oratorical & Debate Society
Outstanding Service Award

COURSEWORK

Data Structures & Algorithms
Software Development
Operating Systems
Human-Computer Interaction
3D Fabrication Techniques
Digital Animation
Computer Vision

SKILLS

PROGRAMMING

Front-End Web Development
using frameworks (AngularJS /
ReactJS) and Back-End using
NodeJS

Python - Machine Learning
Data Analysis and Web Dev
(Django, Flask) in Python

Proficiency in Java, OCaml, R, C

DESIGN SOFTWARE

Photoshop, Illustrator, inDesign
Premiere, After Effects,
3DS Max, 3DS Maya, Blender,
Balsamiq, Sketch

LANGUAGES SPOKEN

English, Hindi, Bengali

INTERESTS

Improvisational & Stand-up
comedy, Science Fiction &
Graphic Novels, Languages,
Accents & Linguistics,
Gastronomic appreciation

WORK EXPERIENCE

2016-2017 DINAR DIRHAM FRONT-END ENGINEER

Designed and developed visual assets for the company, including the corporate web
page and the front end for the cryptocurrency trading platform

Corporate Webpage URL: <https://www.dinardirham.com>

Cryptocurrency Wallet URL: <https://www.universalblockchains.com>

MAY-AUG 2015 KULICKE & SOFFA BUSINESS DEVT INTERN

Invented a real-time fire-detection system using machine learning and computer
vision trained on thermal footage. The product received a patent under review on
Automated Fire Detection & Suppression Systems (US - 183467-3169, China and
Singapore) and was awarded SGD 10000 in the form of the NUS Practicum grant to
develop the product

2013-2016 SUSTAINABLE LIVING LABS FACILITATOR

Advised and assisted teams at hackathons. Helped them develop and polish ideas,
create viable business models and assisted with technical execution of ideas.

JUN-AUG 2014 ADZ CENTRAL PTE LTD DESIGN INTERN

Led a visual overhaul of the company's visual assets and client presentations to
improve company image and user experience

SELECTED PROJECTS & ACHIEVEMENTS

OCT 2017 GOOSEBUMPS: SENSORY SUBSTITUTION USING SERVOS CO-AUTHOR

Designed and implemented a hardware to wetware solution to provide realtime
haptic feedback, effectively substituting visual information with haptic thus allowing a
user to drive a car in a racing game while blindfolded. Project won first place at NUS
Hack & Roll 2017, and was presented at the 2017 ACM International Conference on
Interactive Surfaces and Spaces

Hack & Roll 2017 Project URL: <http://devpost.com/software/sensex>

ACM 2017 Paper URL: <https://dl.acm.org/citation.cfm?doid=3132272.3132293>

APR 2017 EFFECTS OF DISTRACTION ON HAPTIC PERCEPTION SENIOR CAPSTONE

Investigated the effects of auditory and haptic distractions on haptic feedback
perception. Found significant effects of in both domains and used them to create
distraction-resistant haptic feedback patterns

AUG 2015 ELECTIONNAIRE CO- CREATOR

Designed a website that helps Singaporeans determine which political party thinks
like them. Received over 671k page-views and had over 180k unique users in 1 week.

URL: <https://electionaire.info>

AUG 2013 IDEASING #STARTINGUP2013 WINNER

Built a product that managed cyber-addiction in children and incentivized studying
through the process of gamification. Product was voted the crowd favorite and won
SGD 5000

AWARDS

2013 GEORGETTE CHEN STUDY AWARD RECIPIENT

2012 SCHOLASTIC ACHIEVEMENT AWARD (6 As AT A LEVELS)

2010 PETER TAN THUAN TECK AWARD (8 A1s AT O LEVELS)

2009 A*STAR INDIA YOUTH SCHOLARSHIP