Nikhil Patel

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EDUCATION

University of California - Berkeley *2015-2019*
Computer Science major; expected graduation of 2019
Coursework: • Structure & Interpretation of Computer Programs (CS61A) • Machine Structures (CS61C)
• Data Structures & Advanced Programming (CS61B) • Discrete Mathematics & Probability (CS70)

TECH SKILLS

Web:	HTML5/CSS • Javascript • jQuery • D3.js • backbone.js • Ruby on Rails • Bootstrap
General:	Java • Python • C • Assembly (MIPS) • Lisp (Scheme) • SQL
Mobile:	Swift & Objective-C • SpriteKit (iOS games) • LibGDX
Tools:	Git • Unix • Photoshop • Illustrator

PROJECTS

Trello Calendar (DayCal.io) ⌂ *D3.js, backbone.js, HTML/CSS, Trello API*
• Developed an open-source, client-side webapp which allows users to create events from data in their Trello account.
• Implemented a custom interactive hourly calendar view (which persists across web sessions and can sync back to Trello).
• Currently planning on packaging & releasing the calendar view as an open-source D3.js submodule.

MIPS Assembler (Desktop) *C, Assembly (MIPS)*
• Wrote an assembler in C which converts MIPS Assembly Language text files into binary/machine code instructions.
• Handles jumping (intra- and inter-file) and branching using symbol & relocation tables.

Puffin Run (iOS) *Swift, SpriteKit*
• Developing an iOS infinite runner game with simple controls, procedurally-generated maps, an in-game store,
and a global leaderboard.

Text Editor (Desktop) *Java, JavaFX*
• Developed a minimalist, cross-platform text editor with greedy word wrapping, file input/output, variable text sizing,
and cursor movement (arrow keys & clicking). Speedy insertions/deletions and text rendering, even for large files.

Free & For Sale (Web) ⌂ *Ruby on Rails, Bootstrap, HTML/CSS*
• Designed and developed an open-source, responsive webapp for college students to buy & sell items.
• Supports user accounts via the Devise gem, Gravatar integration, item management, and commenting functionality.

Minecraft Plugins (Game) *Java, Bukkit API*
• Created & contributed to many open-source Minecraft server-side modifications, both alone and in collaboration.
• The projects I wrote entirely, or significantly contributed to, have received over 300,000 downloads cumulatively.

EXPERIENCE

Bukkit Developer Staff *2012 - 2014*
Selected to be part of a small team (~15 staff) that verified the safety of thousands of Minecraft server-side modifications
submitted to the community (~400,000 members). Decompiled Java binaries and perused the entire source to
ensure that submissions complied with community standards and were free of malicious or deceptive code.

EXTRACURRICULARS

Berkeley Quantitative Investing *Python, NumPy/SciPy, Quantopian APIs* *2016 - Present*
• Implement medium-frequency stock trading algorithms which exploit high-level investment strategies.
• Heavy use of computerized data analysis, including statistical analysis and mathematical modeling.