ARPAN SWAROOP

123 Broadway ◇ City, State 12345

123 Pleasant Lane ◇ City, State 12345

(011) · 899 · 9881 ◇ john@LaTeXTemplates.com

EDUCATION

University of California, Berkeley   *June 2004*

B.S. in Computer Science & Engineering

Minor in Linguistics

Member of Eta Kappa Nu

Member of Upsilon Pi Epsilon

Overall GPA: 5.678

EXPERIENCE

ACME, Inc   October 2010 - Present

Web Developer   *Palo Alto, CA*

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AJAX Hosting   December 2009 - October 2010

Lead Developer   *Austin, TX*

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· Curabitur dapibus enim sit amet elit pharetra tincidunt website feugiat nisl imperdiet. Ut convallis AJAX libero in urna ultrices accumsan.

· Cum sociis natoque penatibus et magnis dis MySQL parturient montes, nascetur ridiculus mus.

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· Nullam cursus suscipit nisi, et ultrices justo sodales nec. Fusce venenatis facilisis lectus ac semper.

TinySoft   January 2008 - April 2010

Web Designer & Developer   *Gainesville, GA*

· Vivamus PostgreSQL fermentum semper porta. Nunc diam velit PHP, adipiscing ut tristique vitae

· Maecenas convallis ullamcorper ultricies stylesheets.

· Quisque mi metus, unit tests CSS ornare sit amet fermentum et, tincidunt et orci.

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[leftmargin=0.15in, label=, itemsep=0pt] **Unix Like 32-bit x86 Operating System** | *C, x86 asm*

- • Architected a minimalistic multitasking operating system for x86 hardware, prioritizing efficiency and reliability
  • Devised an interrupt-driven, time-slice-based CPU scheduling algorithm to schedule process execution
  • Supported virtual memory using paging data-structures
  • Developed a custom filesystem that supports basic file operations, utilizing storage, and I/O principles

- Implemented device drivers for keyboard, Real Time Clock, Programmable Interrupt Controller, and Programmable Interval Timer
- **Game Developer's toolkit** | *Javascript, HTML, CSS, Node.js, Express, MySQL, Python*
  - Developed full-stack web application using a steam game database to help game developers
  - Implemented multiple advanced queries to the database to output useful information for game developers
  - Implemented interactive graphs in **Python**, showing helpful patterns in game data across all steam games
  - Added features to enable user sign in and login, and the ability to add other users as friends
  - Utilized a **REST API** made with **Node.js** and **Express**
  - Hosted website on the Google Cloud Platform
- **Chip-8 Emulator and Microcontroller port** | *Rust, C*
  - Developed a Chip-8 emulator in Rust, Engineered to be resource-efficient, optimizing for constrained environments
  - Ported the emulator to an ARM Cortex-M4 microcontroller, adapting Rust code for embedded systems
  - Implemented I/O functionality on the microcontroller, managing keyboard input and display output via **SPI** interface
  - Ensured real-time performance and responsiveness by utilizing hardware timers and **interrupt-driven** design
- **Chat-App** | *Golang, javascript, HTML, CSS*
  - Created a simple chat-app utilizing a backend http web-server written in Go
  - Utilized **web-sockets** with **Go-routines** and **Go-channels** to allow multiple users to connect to the server
  - Utilized javascript, HTML, CSS to create dynamic webpages served from the web server

TECHNICAL STRENGTHS

Computer Languages	Prolog, Haskell, AWK, Erlang, Scheme, ML
Protocols & APIs	XML, JSON, SOAP, REST
Databases	MySQL, PostgreSQL, Microsoft SQL
Tools	SVN, Vim, Emacs