APOORV VIDHU SHARMA

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May '18

EDUCATION

Purdue University – West Lafayette, IN Bachelor of Science in Computer Engineering

TECHNICAL SKILLS

Python, C/C++, Java, System Verilog, JavaScript, Git/SVN, MIPS Assembly, Bash Scripting

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RELEVANT EXPERIENCE	
IEEE Code Cafe – Purdue University – Mentor	Apr '18
• Successfully <i>coached</i> graduate students to further enhance skills in <i>data structures</i> and <i>object-oriente Skills: Python 3.6, Debugging, Communication</i>	d concepts.
Undergraduate Teaching Assistant – Purdue University – Software Engineering Tools	Jan '18 – Apr '18
 Train and mentor 30 students to use scripting languages to integrate the input/output of diverse softw Aided students to apply testing techniques to assess software reliability and correctness. Skills: Scripting Languages, Python 3.4, Debugging, Problem Solving, Leadership 	are systems.
Diebold Nixdorf – Mumbai, India – Software Engineering Intern	May '16 – July '16
• <i>Customized user interface,</i> by adding radio buttons, checkboxes and dropdowns to improve functiona navigation of the software.	ality for easy
 Collaborated with a team of engineers in sieving through error logs and making necessary changes t functioning code. Skills: Debugging UI Design Cit. Version Control Application Development Life Cycle. Collaboration 	o provide
Skuis. Debugging, 01 Design, 01 – version Control, Application Development Life Cycle, Collaboration	
PROJECTS	
Smart Surface – Purdue University – Hardware and Systems Engineer	Jan '18 - Present
 Successfully <i>designed</i>, <i>developed</i> and <i>tested</i> a <i>PCB</i> schematic and layout for the Smart Surface project <i>Interfaced</i> various sensors with STM32F0 to obtain accurate readings, using I2C and UART. <i>Skills: PCB Design, Embedded Systems, Hardware/Software Engineering, Interfacing</i> 	t.
Game Development – Purdue University	Aug '17 – Dec '17
• Developed Zork, an interactive fiction game in <i>C</i> ++, and space invaders, a classic arcade game in <i>Jave Skills: Object-oriented methodology, Multi-threading, 2D Graphics Animation, XML Parsing</i>	<i>a</i> .
Tiny Compiler – Purdue University	Aug '17 – Dec '17
• Designed, developed and <i>optimized</i> a fully functioning compiler for the language, Micro. <i>Skills: C++, Flex/Bison, Data Structures, Scripting, Automation</i>	
Multi-Core Processor – Purdue University	Aug '17 – Dec '17
 Optimized a single-cycle processor by implementing a 5-stage pipeline, <i>improving efficiency by 3529</i> Further enhanced performance by <i>implementing an L1 cache</i> and integrating cores, to create a dual-c <i>Skills: System Verilog, MIPS Assembly, VLSI</i> 	6. ore processor.
Steganography – Purdue University	Apr '17 – May '17
 Encapsulated the payload image inside the carrier by <i>reorganizing the LSB of the RGB bytes</i> of the c Successfully optimized <i>Python</i> code to <i>reduce the run time by 40%</i> and embed 1.5MB in less than 2 <i>Skills: Python 3.4, QT GUI, NumPy, SciPy Libraries, SVN – Version Control, Computer Security, Vectori</i> 	arrier image. seconds. <i>zation</i>
Self-Parking Car – Purdue University – Team Leader	Aug '16 – Dec '16
• Delegated tasks and roles to team members and established project timeline to streamline the develop create a productive work flow.	oment process to
Skills: Embedded C, Circuit Design/Integration, Microcontroller Interfacing, Leadership	
Android Development	Jul '16 – Aug '16
 Developed a <i>language learning tool</i> to help users learn a Native American language, Miwok. Implemented threading and added menus to a sample weather app to <i>improve performance by 15%</i>. Skille: Java XML Threading Android Studio, Open Source Experience. 	
Rubik's Cube Solver – Purdue University	Apr '16 – May '16

Surpassed the expectation by solving over 2000 random combinations of a Rubik's cube within half a second. ٠ Skills: Python 2.7, PyCharm