Krutarth Rao

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Education

Purdue University — **West Lafayette, IN**
Bachelor of Science in Computer Science, Software Engineering and Security — *Graduation: May 2018*

Minor: Economics
GPA: 3.85/4.00

Relevant Skills and Coursework

Go, C/C++, Python, Cryptography, Computer Networks, Blockchain, Scientific Presentation and Public Speaking

Work Experience

- **Hewlett Packard Enterprise** — **Santa Clara, CA**
  Aruba*, *Software Developer — *July 2018 - Present*

  Working with network analytics engine (NAE) team in campus and branch networking. Implementing solutions focused on customer requirements collected by marketing engineers and product line managers.
  - Developed back-end service in Golang to monitor and aggregate time series data.
  - Designed Python scripts to tackle customer use cases such as IP SLA analytics.
  - Developed UI in ReactJS to provide full stack solutions.

- **Blockchain Research Team, Purdue University Computer Science Department** — **West Lafayette, IN**
  Undergraduate Research Assistant — *May 2016 - May 2018*

  Blockchain Solution for Supply Chain with IBM Hyperledger. Worked with a team of graduate and undergraduate students led by Prof. Aniket Kate to develop prototypes for supply chain software for **Northrop Grumman** and the mobility division of **Ford Motor Company**.
  - Designed transactions the align with use case specifications.
  - Used Golang and REST APIs to develop Blockchain transaction logic.
  - Wrote automation scripts to initialize *Docker* containers and speed up development and testing time.

Projects

- **Operating Systems Programming and Kernel development (2017)**
  Modified the XINU operating system kernel designed by Prof. Douglas Comer
  Used C to implement signal handling, restructuring ready lists, process scheduling, semaphore lists, message passing and call back functionality to create powerful applications on embedded systems.
- **Implemented a Unix Shell (2016)**
  Unix compatible shell application written in C
  Shell with IO Redirection between commands, Pipes, Background and Zombie process handling, Environment variables, Wildcarding, signal handling, subshell and Line editor. Also utilized Valgrind for debugging.
- **MeetOver - Connecting Professionals on the fly (2018)**
  Full-stack project with Golang, Javascript and firebase
  Implemented backend with machine learning in a team project to match users with profiles on our platform using LinkedIn API.

Awards and Leadership

- **Undergraduate Research Award**
  Awarded outstanding undergraduate researcher award in the 2018 annual Purdue Computer Science Banquet
- **President of Purdue Boxing Club**
  Elected in a leadership role at the PBC. Facilitating resources for a better member experience.
- **Recipient of Purdue Summer Stay Scholarship and Position in Cryptography Research Team**
  Scholarship for full tuition for summer classes to join the research team at Computer Science Department