RESUME

Name: Joel Agnel Fernandes

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Objective: Positions in operating systems, embedded systems, networking development and research.

Technical Skills:
Programming Languages: C, C++, Embedded C, Lisp, Ruby, Python, Perl, Erlang.
Operating Systems: Linux, ucLinux, Windows.

Professional experience:

- **Kernel Engineer, Atlantis Computing, JB Nagar, Bangalore.**
  - **Distributed broker agent:** Developed a networked scalable concurrent system in Erlang to help manage and serve virtual desktops to thousands of users.
  - **Dedup-fs:** Was the core developer for a filesystem for the Linux Kernel designed to deduplicate and save storage by identifying redundancies using various hashing algorithms.
  - **Dm-cache:** Improved a storage caching component of the linux kernel with the following enhancements:
    1. most-frequently-used (MFU) content-aware caching mechanism
    2. Periodic write-back of dirty-blocks from cache to improve cache effectiveness.
- **Systems Engineer, Siemens, Bangalore, India.**
  - For the embedded systems training project, developed a simple scheduler for MSP 430 low-power microcontroller in assembly and embedded C.
  - **Engine management systems:** Worked on development of an embedded system for engine management using the Ercosek RTOS and Embedded C. Python for integration testing.

Academic achievements:

- Bachelor of Engineering in Electronics & Communication, VTU, Belgaum, India. (2003–2007)
  - First class with distinction in all semesters.
  - Received Merit Scholarship during the 2nd and 3rd year (2004 and 2005).
  - Secured second rank with an over aggregate of 79.5%.

Academic Projects, (Canara Engineering College, Mangalore):

- **Final Yr Project, Image Processing:** Developed a tool using the C# programming language for Image Enhancement, Restoration, and Recognition using various Image processing algorithms for image enhancement and restoration.