Akshay Deodhar

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github.com/Bri9k

Education

- **College of Engineering, Pune** — Pune
  Computer Engineering, CGPA 9.62 — *August 2017 - Present*
- **Fergusson College** — Pune
  HSC, 92.4% — *2015 - 2017*
- **BVB's Paranjape Vidya Mandir** — Pune
  SSC, 95.2% — *2005 - 2015*

Work Experience

- **COEP Satellite Team** — Pune
  Attitude Determination and Control Subsystem — *November 2017 - Present*
  - Writing and mantaining code for simulating motion of satellite
  - Integrating publically available modules into simulation
  - Programming a continuous-thrust orbit simulation by interfacing orbit propagator with python code

Projects

- **Trillian- a command-line chess game**
  Data Structures and Algorithms project
  - Compatible with Forsyth-Edwards format
  - Move validation and legal move generation
  - Minmax with alpha-beta pruning used for game tree search
  - Reasonably competent engine, beats novices
- **Fractals, Automata and more**
  Exploring Python
  - Generalised module for creating fractals using L-systems
  - Module for observing Cellular Automata using pygame
  - Simple games, models in pygame

Publications

- **Attitude Control Using 3 Axis Magnetorquers and Pitch Axis Reaction Wheel for Solar Sailing Satellite COEPSAT-2**
  69th International Astronautics Congress (IAC) Bremen, Germany.
  Co-authored with 6 others

Skills

- **Programming**

  - Proficient: C, Python
  - Familiar: Scheme, x86 Assembly, Bash, C++

- **Tools**

  - Unix utilities, Git, LaTeX, Gnuplot, Make

- **Languages**

  - English, Marathi, Hindi

Extra-Curricular Activities

- **Chess team**
  School, Fergusson, COEP

- **Abhiyanta**
  COEP's magazine club

- **Personal blog**
  Bri9k.github.io

Hobbies

Love reading fantasy, science fiction, and farce. Enthusiastic about trekking. Listen to (and attempt to play on harmonium) all kinds of music. Write a bit of limerick.