Joshua C. Jackson

Bay Area, CA

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EXPERIENCE

- **Energy Solutions** — Oakland, CA

  Senior Software Engineer — *April 2023 - Present*
  - **Cosmos:** Tuning OpenSearch algorithms for very large datasets.
  - **Honeybee:** Building a platform to enable real-time redemption of green rebates at retail points of sale.
  - **Iris:** Full-stack development and support for Iris, Energy Solution's green incentive and rebate processing platform.
  - **Code Base Lead:** Promoted to Code Base Lead on the Honeybee project within three months - received a performance evaluation rating of "Exceptional" in the first year.

- **California College of the Arts** — San Francisco, CA

  Applications Developer — *Feb 2016 - April 2023*
  - **CCA Portal:** Developed and maintained a comprehensive web portal using Django, Wagtail, Django REST Framework, and React. Built robust backend APIs, designed database models and relationships, and implemented responsive frontend features based on Figma designs.
  - **Cloud Computing:** Led the effort to migrate parts of CCA's critical web infrastructure from an on-premises hosting environment to a Google Cloud-based Kubernetes environment.
  - **CI/CD:** Wrote Kubernetes manifests and Gitlab CI scripts to support a git tag-based deployment system - optimized deployments by analyzing performance metrics to diagnose bottlenecks.
  - **Elasticsearch:** Developed site-wide search on CCA's Portal using Elasticsearch and tuned search algorithms to improve relevancy by carefully adjusting the weights of fields and other attributes (e.g. popularity).

- **UC Berkeley Goldman School of Public Policy** — Berkeley, CA

  Web Developer — *Sep 2013 - Feb 2016*
  - **Web Development:** Managed web projects over the entire software development life-cycle, from stakeholder meetings and requirements gathering, to design, development and testing.
  - **Systems Administration:** Maintained a campus-hosted LAMP stack for various web applications.

EDUCATION

- **UC Berkeley Extension** — Berkeley, CA

  Data Structures and Algorithms — *Aug. 2019 – Dec. 2019*

- **UC Berkeley** — Berkeley, CA

  B.A. Philosophy, with coursework in Computer Science: — *Jan. 2010 – May 2013*
  - Foundational CS courses

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, PHP, Java (familiarity)

- **Technologies:** Django, Wagtail, Cloud Computing, OpenSearch/Elasticsearch, React, Google Cloud Platform, Databases, Kubernetes, and more