

# Brian Detering

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## Objective

- Build high quality applications that create real value for users.
- Solve tough technical and design challenges.
- Constantly develop my programming ability.

## Summary

I am a Mathematics major that caught the programming bug in a big way. I have built several significant web applications from scratch. My latest project was a logging system for my workplace that is used several hundred times per day. I love to program, and spend most of my free time working on personal programming projects.

## Projects

### Student Logging and Comment System

- Tutors log a summary of each students daily activities, which parents can access via secure login.
- Parents can post comments to their child's profile.
- Full Management capabilities: Fine grained search results. Create/Update/Delete profiles, logs, workbooks, etc.

### The Cambridge Learning Center Website

- Created a website and content management system for my current employer (tutoring center)
- The content management system, allows my boss to edit or add to any text or images appearing on the site using an easy to use interface.

(This was a free project I did for fun. There are already fully featured content management systems like Wordpress and Drupal.)

### Curricula (WIP)

- Curricula is a Wikipedia like website, designed to organically create a curriculum around a subject.
- Links between subjects follow a tree graph structure, allowing users to follow a definite pathway from general pre-requisites, to advanced material.
- Subjects are overlaid with a network of references and quizzes.
- A voting system is implemented for all of the above, creating a metric on which to promote quality material in search results, etc.

## Education

**University of California San Diego**  
**B. A. Mathematics**

## Skills

### Methodologies

- Object Oriented Design and Patterns.
- Test Driven Development.
- Ajax and heavy client side architecture.
- Security conscious design and techniques.
- Database design and normalization.

### Tools

#### Advanced :

- PHP, MySql, Javascript, HTML.

#### Familiar :

- C, C++, Java, Haskell, Python

## References

Available upon request.