

# Team Heart of Gold

Study Buddy



# Group Members

## *Brenton Chasse - Backend/Databases*

I am a senior Computer Systems Engineering student pursuing a minor in Computer Science. I work for and have accepted a full time job offer with IBM. Within "Software Group", I am part of a team developing a web app referred to as "Verse" where I have become familiar with using JavaScript and the Dojo toolkit for front end development.

I will be designing and implementing the database and associated backend support.

## *Gary White - Frontend/UI*

I am a junior Computer Science major, with prior team working experience from Software Engineering in CMPSCI 326. Most of my role in that project was making sure that the user interface and the backend were able to communicate well. Portions that I worked on front end things were exciting to me because I was interested in being able to tie pieces together. I am excited to be part of this team and this project.

## *Grayson Kempster - Backend/Databases*

I am a Junior Computer Science major with a focus on physics. I work as an RA in Washington Tower in the SouthWest residence area. I was raised in a small town called Hopedale in MA where I earned the rank of Eagle Scout in the local Boy Scout troop. I am good at creative problem solving, and have experience with Java, JavaScript, HTML, C, and UNIX. In terms of this project I am interested in database management, graphic design, and function design.

## *Main Khan - Networking/Data Parsing*

I am a Sophomore Computer Science and Computational Mathematics double major under the software engineering track. I enjoy working on the user experience and user interface aspects of development. I'm looking forward to working on a large scale group project such as this one.

## *Philron Hozier - Frontend/UI*

Currently a Junior @UMass Amherst pursuing a BS Computer Science degree. My interest in CS is the design of software and user experience. I have some past experience developing two, rather small, mobile applications with a friend in Objective C for iOS (teacher absentee app, music lyric app).

## *Tyler Caldwell - Networking/Data Parsing*

I am a junior CS-BA/Econ major. I'm interested in software engineering and data analysis in the financial sector. I've worked for BNY Mellon and State Street Bank, and this summer I'll be working at Fidelity Investments in a data science role.

# Problem Statement

There are many unnecessary stresses associated with higher education. Educational growth is usually accompanied by various sources of stress, such as worrying about grades or finding people to study with. We aim to streamline and simplify these processes in order to make life easier for those who have enough to worry about.

While some people need to be taught a concept multiple times, others learn best by teaching. Many students enjoy learning in a team, but find themselves in a class of unfamiliar faces. And some students simply enjoy sharing their knowledge with others.

People learn in very different ways, but most students understand the value of studying together. We at Heart of Gold seek to make finding study partners as quick and easy as possible.

By cataloguing our users' classes and preferences, we provide a consolidated network for finding matches tailored to individual academic needs. For example, people who prefer to study in silence are less likely to be matched with someone who prefers studying with background noise. Similarly, those who prefer to learn visually are more likely to be matched with those who prefer the same.



# Product Description

- Mobile or full browser
- Simple, intuitive interface for profile creation
  - ◆ Basic personal info, major, classes, study habits
- Algorithms suggest matches between study partners, ranking matches by compatibility
- User makes a decision
  - ◆ Connect or pass & view new user
- Users only informed if both connect

# What Void Do We Fill?

- There are many unique social media networks in college, each with a specific purpose
  - ◆ Anonymous picture/tweet sharing
  - ◆ Dating
  - ◆ Professional networking
- There is currently no network for enriching your academic experience

# Timeline

- February 28th - Basic analysis
- March 14th - Design/Design documents
- March 27th - Basic interface implemented
- April 09th - Interface w/ backend (rough)
- April 16th - Mostly functional, finalizing
- April 20th - Final debugging/testing
- April 28th - Final implementation

# 3-Month Cost Estimate

Expense	Rate	Total
Wage	\$40/hr, 6 developers, full time 3 months	120,000
Space	\$1200/month	3600
Hardware (computers, servers)	One-time \$9000	9000
Advertising (AdWords)	\$2000/month	6000
Legal	\$2600	2600
Domain	\$20/year	20
Hosting	\$15/year	15
<b>TOTAL:</b>		<b>141,235</b>