

network.

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Meet the team.



Nathan Scoglio

Frontend integration,
full stack development



Samantha Chang

Frontend development,
full stack integration



Eduardo Marin

Frontend development,
navigation



Melissa Wen

GUI design,
databasing, and
backend integration



**what is
network?**



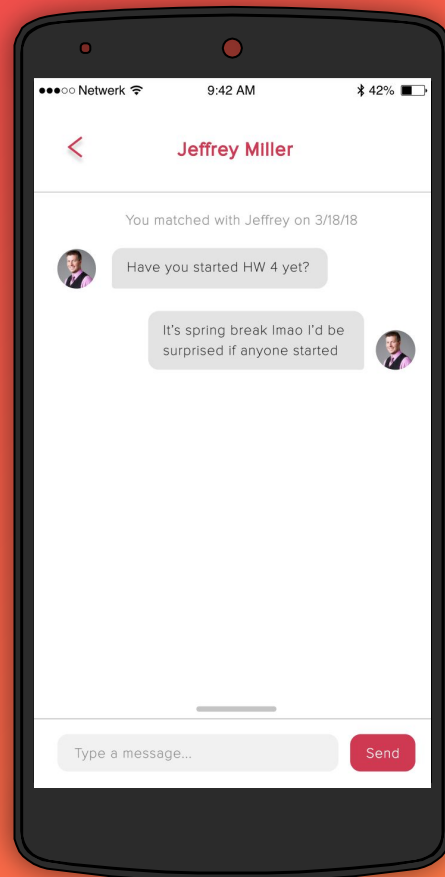
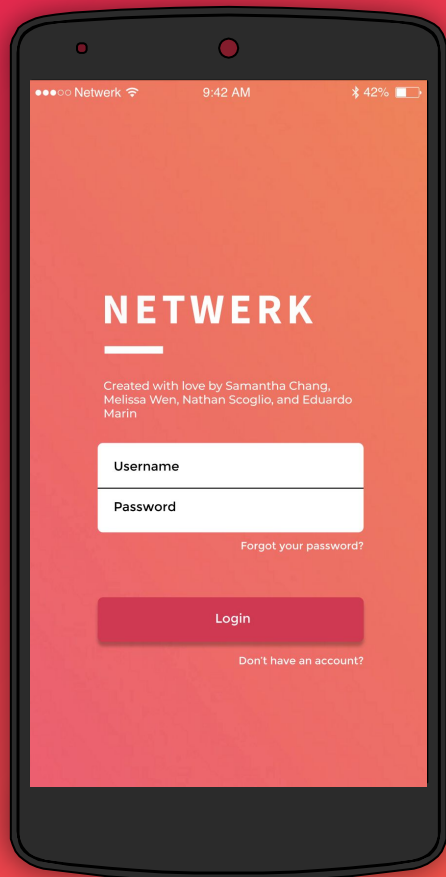


Connection-based networking app with the simplicity of a dating app

The Design Process

- Took inspiration from Tinder / LinkedIn UI and functionality
- Documented all functionalities in detailed design
- Created a prototype implementing full GUI design







The Design Process

What worked:

- Creating the prototype
- Completing all documentation
- One person on UI mockup

What didn't:

- Underestimating time spent on each component

The Development Process

1. Assigned everyone to implement an entire page
2. 3 people on frontend, 1 person creating database
3. Moved to backend + integration after completing GUI



The Development Process

What worked:

- Everyone was responsive
- Watching video tutorials
- Getting together for integration and testing
- Pair programming

What didn't:

- Sendbird Messaging API
- Firebase cloud database
- Google App Engine backend
- Too many new functionalities
- Frontend/backend division
- Hardware and compatibility issues

Teamwork

- Regular meetings
 - At least 2 hours a week in person
 - CP meetings
- Flexibility in taking on different responsibilities
- Online communication over Slack
 - Met in person for integration



Skills and Tools

Languages:

- Java
- Javascript
- React Native
- SQL

Software:

- Eclipse
- Android Studio
- Sublime
- MySQL Workbench
- Figma
- Adobe Illustrator
- Tomcat server
- Github

APIs/Libraries:

- Fetch API
- Google Places API
- Native Base
- Gifted Chat
- SwipeCards
- React Navigation
- Gson
- ReactJS

- **ArrayList** - users database
- **Queue** - obtaining cards on home page
- **Stack** - storing and fetching messages
- **Set** - user relationships
- **HashMap** - screen names to corresponding pages



Multithreading

- **Fetch API** - asynchronous calls to servlet
- **GiftedChat** - messaging between users

`{fetch API}`



Networking

- Hosted servlet on Tomcat server
- Used Fetch API in React Native to call servlet
 - Parsed JSON HTTP servlet response in frontend
- JDBC connection between servlet and SQL database



Login Functionality



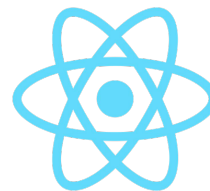
REGISTER & LOGIN

- Authenticated users - log in and sign up
 - Directed to home page
 - Full access to home page, search and messaging features
- Guest users
 - Can swipe through card stack
 - Cannot search or message users, only swipe left
 - If swipe right, will alert user that they must create account before they can begin messaging

Professional Development

Topics we learned:

- React Native
- Gradle settings and configuration
- Running and deploying Android apps
- Project version control
- Design tools: Figma + Illustrator
- Package management: npm
- Pitching our product





Outside Courses

CSCI 109

*Introduction to
Computing*

CSCI 104

*Data Structures and
Object Oriented Design*

CSCI 103

*Introduction to
Programming*

CSCI 170

*Discrete Methods in
Computer Science*

ISDS 265

*Information
Systems and
Applications*

DES 204

*Introduction to
Adobe Illustrator*



demo.





**any
questions?**

